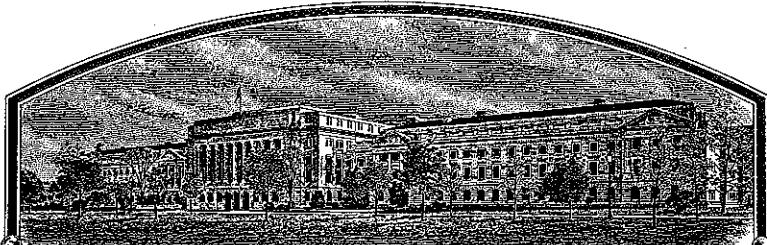


No.

200200211



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Jacklin Seed/Simpot

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HERETO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR SELLING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BLUEGRASS, KENTUCKY

'Tsunami'

In Testimony Whereof, I have hereunto set my hand
and caused the seal of the Plant Variety
Protection Office to be affixed at the City of
Washington, D.C. this twenty-third day of June,
in the year two thousand and five.

Attest:


R. L. M. Johnson
Commissioner
Plant Variety Protection Office
Agricultural Marketing Service


M. L. Johnson
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

1. NAME OF OWNER

Jacklin Seed/Simplot

2. TEMPORARY DESIGNATION OR
EXPERIMENTAL NAME
J-2487, 94-24873. VARIETY NAME
Tsunami

4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)

W. 5300 Riverbend Ave.
Post Falls, Id 838545. TELEPHONE (Include area code)
208- 773-75816. FOR OFFICIAL USE ONLY
PVPO NUMBER

2002000211

6. FAX (Include area code)
208- 773-4846

FILING DATE

August 5, 2002

7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF
ORGANIZATION (corporation, partnership, association, etc.)
Corporation8. IF INCORPORATED, GIVE
STATE OF INCORPORATION
Nevada9. DATE OF INCORPORATION
June 28, 1955

10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)

A. Douglas Brede
W. 5300 Riverbend Ave.
Post Falls, ID 83854FILING AND EXAMINATION
FEES:

\$ 2705

DATE 8/5/2002

CERTIFICATION FEE:

\$ 432.00

DATE 5/2/2005

11. TELEPHONE (Include area code)

208- 773-7581

12. FAX (Include area code)

208- 773-4846

13. E-MAIL

dbrede@simplot.com

14. CROP KIND (Common Name)

Kentucky bluegrass

15. GENUS AND SPECIES NAME OF CROP

Poa pratensis

16. FAMILY NAME (Botanical)

Gramineae

17. IS THE VARIETY A FIRST GENERATION
HYBRID? YES NO

18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)

- a. Exhibit A. Origin and Breeding History of the Variety
- b. Exhibit B. Statement of Distinctness
- c. Exhibit C. Objective Description of Variety
- d. Exhibit D. Additional Description of the Variety (Optional)
- e. Exhibit E. Statement of the Basis of the Owner's Ownership
- f. Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository)
- g. Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)

19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF
CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act) YES (If "yes", answer items 20
and 21 below) NO (If "no", go to item 22)20. DOES THE OWNER SPECIFY THAT SEED OF THIS
VARIETY BE LIMITED AS TO NUMBER OF CLASSES?IF YES, WHICH CLASSES? FOUNDATION REGISTERED CERTIFIED21. DOES THE OWNER SPECIFY THAT SEED OF THIS
VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?IF YES, SPECIFY THE FOUNDATION REGISTERED CERTIFIED
NUMBER 1,2,3, etc.

(If additional explanation is necessary, please use the space indicated on the reverse.)

22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED
FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR
OTHER COUNTRIES? YES 27 Nov 01 NOIF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE
FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL
PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? YES NOIF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED
REFERENCE NUMBER. (Please use space indicated on reverse.)

24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF OWNER

SIGNATURE OF OWNER

NAME (Please print or type)

A. Douglas Brede

NAME (Please print or type)

CAPACITY OR TITLE

Research director

DATE

31 July 02

DATE

Exhibit 16A

Origin and Breeding History – ‘Tsunami’ Kentucky Bluegrass

‘Tsunami’ Kentucky bluegrass originated as a highly apomictic, single-plant selection from the progeny of hybrid cross number 89-1033, made in the field in July 1989. Pollen from the variety ‘Limousine’ Kentucky bluegrass was used to pollinate plants of ‘Midnight.’

Seed harvested from 89-1033 plants were individually sown into cells of greenhouse flats during the spring of 1993. The resulting plants were grown in a spaced-plant field nursery of 40,701 plants. Offspring with characteristics dissimilar to 89-1033 were flagged during maturation in Spring of 1994. Plant number 94-2487 (the experimental designation for Tsunami) was identified as being unique from Midnight, its maternal parent, by its vegetative turf characteristics, prior to heading. Plant 94-2487 produced 22 grams of clean seed from a single spaced plant, which is slightly more than typical for a bluegrass spaced plant in North Idaho.

Seed harvested from experimental 94-2487 was tested in Jacklin turf quality trials in Idaho in 1994. It was tested in Ohio in 1996, New Jersey in 1997, Maryland in 1995, and in national (NTEP) trials in 2000. It was evaluated in Idaho at both 1½ inch and ½ inch mowing, and in Maryland at 2 inch and 3/8 inch mowing. Its seed yielding ability was evaluated in a replicated yield trial in Post Falls in 1998 and in a small production block near Connell, WA, seeded in 1998. First breeder seed was produced in 1998 and first certified seed in 2001.

Progeny trials were conducted in spaced-plant nurseries, established near Post Falls, ID, in May 1997, to determine the level of apomixis. Among Tsunami plants, 2.3% were variants in the vegetative (pre-heading) stage, 1% were heading maturity variants, 0.3% seedhead variants, 1.3% miniature plants, and 0.2% were headless plants. In spaced-plant nurseries, Tsunami averaged 95% apomictic. However in commercial seed production, apomixis will typically vary from 90 to 99% depending upon weather and year.

Tsunami Kentucky bluegrass is a stable and uniform variety. All seedlots evaluated have produced turf of comparable quality and acceptable uniformity. Aberrant progeny are rogued from breeders, foundation, and registered fields to insure continued uniformity and stability, but they will continue to occur in every generation.

Exhibit 16 B**Statement of Distinctness – Tsunami Kentucky Bluegrass**

‘Tsunami’ is a moderately low-growing Kentucky bluegrass variety with late maturity. Tsunami can be distinguished from all other varieties by the combination of spaced-plant and seed characteristics described in Tables 1 through 8. Tsunami most closely resembles ‘Award’ Kentucky bluegrass but differs from it in the following characters:

1. Tsunami has a significantly wider flagleaf than Award (4.47 mm for Tsunami versus 3.43 mm for Award in 1999, significant at 0.001 level; 2.61 mm for Tsunami versus 2.15 mm for Tsunami in 2000, significant at 0.001 level) (Table 2).
2. Tsunami has a significantly smaller flagleaf length-to-width ratio than Award (12.5:1 for Tsunami versus 16.2 for Award in 1999, significant at 0.001 level; 16.2:1 for Tsunami versus 20.3 for Award in 2000, significant at 0.001 level) (Table 2).
3. Tsunami has a significantly smaller length from the panicle node to the flagleaf collar than Award (18.2 mm for Tsunami versus 19.5 mm for Award in 1999, significant at 0.05 level; 14.8 mm for Tsunami versus 16.5 for Award in 2000, significant at 0.001 level) (Table 5).
4. Tsunami has significantly earlier reproductive maturity on June 7th than Award (rating mean of 6.6 for Tsunami versus 4.8 for Award in 1999, significant at 0.001 level; rating mean of 6.6 for Tsunami versus 4.8 for Award in 2000, significant at 0.001 level) (Table 8).
5. Tsunami has a significantly lighter green genetic color than Award, according to the 2001 average across 27 university locations in the National Turfgrass Evaluation Trial, established 2000 (Table 9).



U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MARYLAND 20705
OBJECTIVE DESCRIPTION OF VARIETY
BLUEGRASS (*Poa* spp)

Exhibit 16C
(Bluegrass)

| | |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| NAME OF APPLICANT(S) Jacklin Seed / Simplot | VARIETY NAME OR TEMPORARY DESIGNATION Tsunami |
| ADDRESS (Street and no., or R.F.D. No., City State and ZIP Code) W. 5300 Riverbend Ave. Post Falls, Idaho 83854 | FOR OFFICIAL USE ONLY PVPO NUMBER 200200211 |

Place the appropriate number that describes the Varietal character of this variety in the boxes below. Use leading zeros when necessary (e.g., 089 or 09). Characteristics described including numerical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate system used; 1-9 rating scale, where mentioned. Describe location of test area, conditions and number of plants used: Rathdrum, ID, 40-60 plants/cultivar. The symbol "▲" indicates decimal. Location of the test area: Farm near Rathdrum, Idaho

1. SPECIES: (With comparison varieties for use below - use varieties within species of application variety)

| | | | | |
|----------------------------|-------------------------|------------------------|------------------------|--------------------------|
| <input type="checkbox"/> 2 | 1= <i>Poa compressa</i> | 2= <i>P. pratensis</i> | 3= <i>P. trivialis</i> | 4= Other (specify) _____ |
| <input type="checkbox"/> | Chromosome Number | | | |

2. ADAPTATION: (0= Not tested; 1= Not Adapted; 2= Adapted)

| | | | | | | | |
|----------------------------|--------------|----------------------------|-------------------|----------------------------|---------------------|----------------------------|-----------------------|
| <input type="checkbox"/> 2 | Northeast | <input type="checkbox"/> 2 | Transitional zone | <input type="checkbox"/> 1 | Southeast | <input type="checkbox"/> 2 | North Central |
| <input type="checkbox"/> 2 | Pacific N.W. | <input type="checkbox"/> 2 | Intermountain | <input type="checkbox"/> 2 | Southwest (CA.,AZ.) | <input type="checkbox"/> | Other (specify) _____ |

3. Maturity: (At first anthesis): Give test area Rathdrum, ID

★ 6 Maturity Class:

1= Very Early 2 = Early (Delta, Mystic) 3= Medium Early (Fylking, Nugget)
4= Medium Late (Newport, Adelphi, Aquila) 5 = Late (Merion, Baron, Enmundi) 6 = Very Late(Pacific)

June 6 Date of First Anthesis

| | | | | | | |
|----------------------------|-----------------------------|-------------------------------|----------|-----------|-----------|--------------|
| <input type="checkbox"/> 3 | Number of days earlier than | ★ <input type="checkbox"/> 11 | 1=Nugget | 2=Fylking | 3=Delta | 10=Midnight |
| Maturity same as | | ★ <input type="checkbox"/> 10 | 4=Merion | 5=Newport | 6=Baron | 11=Award |
| <input type="checkbox"/> 5 | Number of days later than | ★ <input type="checkbox"/> 6 | 7=Mystic | 8=Sabre | 9=Reubens | 12=Touchdown |

4. PLANT HEIGHT: (At maturity; Average of longest shoot of 10 plants from soil surface to top of panicle) Test area Rathdrum, Idaho

★ 3

1= Short (Nugget) 2 = Medium short (Baron, Fylking, Mystic)
3= Medium Tall (Merion, Adelphi) 4= Tall (Delta) 5 = Very Tall

★ 5 0▲9 cm Height

9▲9 cm Shorter than

★ 12 1=Nugget 2=Fylking 3=Delta

Height same as

★ 11 4=Merion 5=Newport 6=Baron

1 0▲4 cm Taller than

★ 1 7=Mystic 8=Sabre 9=Reubens

5. GROWTH HABIT:

★ 2 3 = Prostrate (Nugget) 2 = Semi-prostrate (Merion) 1 = Erect (Delta)

4 2 cm Amount of spread by rhizomes in 1 year (give test area Rathdrum, Idaho))

6. LEAF BLADE:

| | | | |
|------------------------------|------------------------------------------|-----------------------------------------------|---------------------------------------------|
| ★ <input type="checkbox"/> 4 | Green Color | 1 = Light Green (Mystic) | 2 = Medium Green (Fylking, Bonnieblue) |
| | | 3 = Moderately dk. green (Merion, Adelphi) | 4 = Very dk. green (Nugget, Glade, Enmundi) |
| ★ <input type="checkbox"/> 3 | Bluegreen Color | 1 = Not bluegreen (Mystic, Touchdown, Parade) | 2 = Moderately bluegreen (Merion, A-34) |
| | | 3 = Bluegreen (Nugget, Enmundi, Adelphi) | 4 = Strongly bluegreen (Majestic) |
| <input type="checkbox"/> 1 | Winter color | 1 = Light green | 2 = Dark green |
| | | 4 = Dark purple | 3 = Light purple |
| | | | 5 = Not purple |
| | | | 6 = Not green or purple |
| ★ <input type="checkbox"/> 1 | Hairs upper side: | 1 = Absent (Nugget) | 2 = Sparse (Merion) |
| 1 | Hairs lower side: | 1 = Absent (Fylking, Merion) | 2 = Sparse |
| 2 | Luster upper side: | 1 = Shiny (Eclipse, Enmundi) | 2 = Dull (Aquila, Parade) |
| 2 | Luster lower side: | 1 = Shiny (Mystic, Enmundi) | 2 = Dull (Barvie, Eclipse) |
| ★ <input type="checkbox"/> 1 | Margin hairs (Fringe on Margin or Base): | 1 = Absent (Delta) | 2 = Present (Fylking, Merion) |
| ★ <input type="checkbox"/> 4 | Width | 1 = Very fine (Mystic) | 2 = Fine (Nugget) |
| | | 4 = Broad (Adelphi, Baron) | 3 = Medium (Merion, Fylking) |
| | | | 5 = Very broad (Monopoly) |

4 4 7 mm Width (flag leaf)

mm Narrower than

Width same as

7 6 mm Wider than

5 1 8 mm Length (flag leaf)

8 8 mm Shorter than

Length same as

5 5 mm Longer than
Position of flag leaf (angle to stem):

★ 1=Nugget 2=Fylking 3=Delta

★ 1=Merion 5=Newport 6=Baron

★ 6 7=Mystic 8=Sabre 9=Reubens

★ 13 1=Nugget 2=Fylking 3=Delta 13=Liberator

★ 11 4=Merion 5=Newport 6=Baron

★ 6 7=Mystic 8=Sabre 9=Reubens
1 = Appressed 2 = Open angle, yet stiff 3 = Nodding

7. LEAF SHEATH:

| | | | | |
|---|---|---|-------------------------------------------------------------|----------------------------------------------------------|
| 1 | 0 | 9 | mm sheath length | |
| ★ | | | Seedling Color (base of sheath): | 1 = Green (Nugget, Merion) 2 = Red (Delta) |
| ★ | 1 | | Hairs on Margin: | 1 = Absent (Fylking) 2 = Present (Nugget) |
| ★ | 1 | | Margin Roughness (to touch): | 1 = Smooth (Delta) 2 = Rough (Sabre) |
| 1 | | | Hairs on Surface | 1 = Absent 2 = Present (Nugget) |
| 1 | | | Surface Roughness (to touch): | 1 = Smooth (Fylking) 2 = Rough (Ram I) |
| 1 | | | Hairs on both sides just beneath leaf blade (Under collar): | 1 = Absent (Merion) 2 = Present (Nugget) |
| ★ | 1 | | Hairs on Ligule: | 1 = Absent (Fylking) 2 = Short (Baron) 3 = Long (Nugget) |
| 1 | | | Glaucosity: | 1 = Absent (Mystic, Enmundi) 2 = Present (Birka) |
| 2 | | | Keel: | 1 = Absent (Ram I) 2 = Present (Adelphi) |

8 PANICLE (Mature plant):

| | | | | |
|--------------------------------|--------------------------------|--------------------------------|-----------------------------------------------------------|--------------------------------------------------------------|
| <input type="text" value="8"/> | <input type="text" value="9"/> | <input type="text" value="0"/> | mm Length (Lowest whorl to top, for 10 plants) Test area: | Rathdrum, Idaho. |
| <input type="text" value="3"/> | <input type="text" value="3"/> | <input type="text" value="3"/> | mm Shorter than | ☆ <input type="text" value="12"/> 1=Nugget 2=Fylking 3=Delta |
| | | | Panicle length same as | ☆ <input type="text" value="11"/> 4=Merion 5=Newport 6=Baron |
| <input type="text" value="1"/> | <input type="text" value="9"/> | <input type="text" value="7"/> | mm Longer than | ☆ <input type="text" value="1"/> 7=Mystic 8=Sabre 9=Reubens |

| | | |
|----------------------------------|----------------------------------------------------|------------------------------------------------------------------------------|
| ☆ <input type="text" value="2"/> | Color (at 50% flowering): | 1 = Not red (Fylking) 2 = Red (Nugget) |
| | Shape of Rachis (Opposite lower side of branches): | 1 No bend (Nugget) 2 = Bend (Merion) |
| ☆ <input type="text" value="2"/> | Collar: | 1 = Opened (Nugget) 2 = Closed (Merion) |
| ☆ <input type="text" value="2"/> | Branches Attitude (Lowest whorl): | 1 = Dropping (America, Prato) 2 = Horizontal (Merion) 3 = Ascending (Tundra) |

| | | | |
|----------------------------------|--------------------------------|-------------------------------------------|-----------------------------------------|
| <input type="text" value="4"/> | <input type="text" value="2"/> | <input type="text" value="2"/> | Number of main branches in lowest whorl |
| ☆ <input type="text" value="2"/> | Panicle Habit: | 1 = Nodding (Newport) 2= Upright (Nugget) | |
| ☆ <input type="text" value="2"/> | Panicle Type: | 1 = Open 2 = Intermediate 3= Compact | |
| <input type="text" value="1"/> | Anther color (anthesis) | 1 = Purple 2 = Yellow 3 = Brown | |

9 Lemma:

| | | | | |
|----------------------------------|---------------------|--------------|------------------------|----------------------|
| ☆ <input type="text" value="1"/> | Keel | 1 = Galbrous | 2 = Slightly pubescent | 3 = pubescent |
| ☆ <input type="text" value="1"/> | Marginal Nerves | 1 = Distinct | 2 = Obscure | |
| <input type="text" value="1"/> | Intermediate Nerves | 1 = Absent | 2 = Scant (Baron) | 3 = Copious (Merion) |
| <input type="text" value="1"/> | Basal Webbing | | | |

10. SEED (Floret-not hulled):

| | | | | |
|----------------------------------|---------------------|---------------------------------|-----------------------|------------------|
| ☆ <input type="text" value="2"/> | Apomixis Percentage | 1 = more than 95 | 2 = 85 to 95 | 3 = less than 85 |
| | Phenol Reaction | 1 = none-lemma removed (Merion) | 2 = Beige (Cougar) | 3 = Brown |
| | | 4 = Black (Mystic 2 hours) | 5 = Black (24 hours) | (Windsor) |

mm. Width (average of 10)

mm. Length

Milligrams per 10,000 seed

Milligrams less than

☆ 1=Nugget 2=Fylking 3=Delta

Weight same as

☆ 4=Merion 5=Newport 6=Baron

Milligrams more than

☆ 7=Reubens 8=Sabre 14=Arcadia

☆ Weight Class (g per 10,000 seed):

1 = Light (< 3g Sydsport, Merion)

2 = Medium (3g - 4 g Adelphi, Parade)

3 = Heavy (> 4g Fylking, Nugget)

11. ENVIRONMENTAL RESISTANCE: (0=Not Tested; 1 = Very Susceptible; 2= Moderately susceptible; 3= Moderately resistant; 4 = Highly resistant):

| | | | | | | | |
|--------------------------------|---------------------------------|--------------------------------|-----------------|--------------------------------|----------------------|--------------------------------|-----------------------|
| <input type="text" value="2"/> | Cool Temperature (Winter color) | <input type="text" value="3"/> | Cold (injury) | <input type="text" value="3"/> | Heat | <input type="text" value="3"/> | Drought |
| <input type="text" value="2"/> | Shade | <input type="text" value="3"/> | Low Fertility | <input type="text" value="0"/> | Acid Soil (<pH. 5.5) | <input type="text" value="0"/> | Alkalinity (pH > 7.5) |
| <input type="text" value="0"/> | Salinity | <input type="text" value="0"/> | Soil Compaction | <input type="text" value="0"/> | Poor Drainage | <input type="text" value="0"/> | Air Pollution |

Other (specify) _____

12. DISEASE RESISTANCE: (0=Not Tested; 1 = Very Susceptible; 2= Moderately susceptible; 3= Moderately resistant; 4 = Highly resistant):

| | | | |
|--------------------------------|----------------------------------------------------------------------|--------------------------------|------------------------------------|
| <input type="text" value="4"/> | Melting-out <i>Drechslera poa</i> (<i>Helminthosporium vagans</i>) | <input type="text" value="0"/> | Scerotina Patch <i>S. borealis</i> |
| <input type="text" value="4"/> | Helminthosporium Leaf spot <i>Bipolaris sorokiniana</i> | <input type="text" value="2"/> | Stem rust <i>Puccinia graminis</i> |

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| | |
|---|---------------------------------------------------------|
| 3 | Brown patch <i>Rhizoctonia solani</i> |
| 2 | Powdery mildew <i>Erysiphe graminis</i> |
| 4 | Stripe smut <i>Ustilago striiformis</i> |
| 0 | Flag Smut <i>Urocystis agropyri</i> |
| 2 | Pink Snow Mold <i>Fusarium nivale</i> |
| 3 | Ergot <i>Claviceps purpurea</i> |
| 4 | Fusarium blight <i>F. tricinctum</i> , <i>F. roseum</i> |
| 3 | Typhula Blight <i>Typhula</i> spp. |
| 3 | Dollar spot <i>Sclerotinia homoeocarpa</i> |

| | |
|---|----------------------------------------|
| 0 | Stripe Rust <i>P. stiformis</i> |
| 2 | Leaf Rust <i>P. poa-nemoralis</i> |
| 0 | Orange Stripe Rust <i>P. poarum</i> |
| 0 | Pythium Blight <i>Pythium</i> spp.. |
| 0 | Red thread <i>Corticium fusciforme</i> |
| | Other: _____ |
| | Other: _____ |

13. INSECTS, NEMATODES, RESISTANCE: (0=Not Tested; 1 = Very Susceptible; 2= Moderately susceptible; 3= Moderately resistant; 4 = Highly resistant):

| | |
|---|----------------------------------------------------------------------|
| 0 | Chinch Bug <i>Blissus</i> spp. (give species: _____) |
| 0 | Sod Webworm <i>Crambus</i> spp. (give species: _____) |
| 0 | Bluegrass Billbug <i>Sphenophorus parvulus</i> (give species: _____) |
| 0 | White Grub (Japanese Beetle, Chafer. (give species: _____) |
| 0 | Greenbug Aphid <i>Schizaphis graminum</i> |
| | Other: _____ |
| | Other: _____ |

14. GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE APPLICATION VARIETY, For the following characteristics indicate Degree of Resemblance by placing the column marked, D.R., one of the following numbers:

1 = Application variety is less than comparison variety. 2 = Same As 3 = More than, better, greater, darker, more disease resistant, etc.

| CHARACTER | VARIETY | D.R. | CHARACTER | VARIETY | D.R. |
|------------------|---------|------|-------------------|---------|------|
| Maturity-heading | NuGlade | 3 | Leaf width | Nugget | 3 |
| Height | Award | 2 | Leaf color spring | Award | 2 |
| Seed size | Award | 2 | Leaf color summer | Award | 1 |
| Seed weight | Award | 1 | Leaf color winter | Award | 2 |
| Cold injury | Award | 2 | Drought | Award | 3 |
| Heat | Award | 3 | Disease | Award | 3 |
| Shade | Award | 3 | (Leaf spot) | | |

☆☆Specify each disease evaluated.

15. ADDITIONAL DESCRIPTION:

Describe all character

Exhibit 16D**Additional Description of the Variety – ‘Tsunami’ Kentucky bluegrass**

‘Tsunami’ is a moderately low-growing Kentucky bluegrass variety with late maturity. Mature culms average 51 cm with a panicle length of about 9 cm in Post Falls, ID. Growth from a single tiller in a one-year period is a robust 42 cm. The seedheads are a predominantly army green color at anthesis, with a purplish cast to the younger parts of the panicle. The purple coloration shows up mixed throughout the panicle with a predominance at the tips. Although the purplish color is noticeable, it is not as pronounced from a distance as in varieties like ‘BlueChip’ and ‘Baron.’

Culms are predominantly vertical in their orientation, with very few lax tillers toward the perimeter of the clonal plant. Lodging resistance appears to be excellent. There is a slight tendency for shorter culm lengths toward the edge of the clonal plant, however, most have uniform culm length. The panicles are mainly erect with a slight droop to the very tip.

The variety is highly apomictic. The predominant variant seems to show up in the vegetative (pre-heading) stage, as opposed to later on. Only a few variants show up during the heading stage. About 1% of the variants show a ‘Limousine’-like appearance to the seedheads, with very upright growth. A small proportion of the variants are a miniature plant which will not express itself in seed production. There does not seem to be any taller-growing, common type variants within this variety. About 1% of the plants show an earlier maturity that would significantly stick out in a seed production field. Most of the variants are shorter growing than the majority plant form and may not express themselves in solid plantings. Aberrant plants are removed from seedstock fields. However, they will continue to be expressed in each generation, due to the facultative apomictic nature of Kentucky bluegrass. Tsunami does not show susceptibility to rust, mildew or ergot in seed production above that of other popular varieties.

Tsunami is a versatile Kentucky bluegrass variety, with applications on golf courses, sod farms, sports fields, home lawns, roadsides, cemeteries, and other turf areas, where bluegrass is well adapted. Tsunami performs well in full sun or partial shade.

Table 1. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

| Variety | Culm length (cm) | | | Sheath length (cm) | | | Panicle length (cm) | | |
|---------------|------------------|---------------|---------------|--------------------|---------------|---------------|---------------------|---------------|---------------|
| | 1999 prob. | 2000 prob. | 1999 prob. | 2000 prob. | 1999 prob. | 2000 prob. | 1999 prob. | 2000 prob. | 1999 prob. |
| Tsunami | 50.9 | 55.3 | 10.9 | 9.3 | 8.90 | 7.43 | | | |
| 94-2695 | 56.7 | 0.000 | 56.1 | 0.257 | 13.0 | 0.000 | 10.8 | 0.000 | 8.99 |
| Beyond | 48.6 | 0.008 | 56.3 | 0.148 | 10.2 | 0.004 | 8.4 | 0.000 | 0.000 |
| Absolute | 61.9 | 0.000 | 58.6 | 0.000 | 11.6 | 0.004 | 11.2 | 0.000 | 7.23 |
| Arcadia | 48.6 | 0.009 | 51.9 | 0.000 | 10.7 | 0.454 | 8.6 | 0.003 | 0.094 |
| Award | 58.3 | 0.000 | 55.8 | 0.481 | 10.8 | 0.653 | 9.1 | 0.382 | 9.02 |
| Baron | 40.0 | 0.000 | 43.6 | 0.000 | 11.8 | 0.000 | 9.4 | 0.783 | 9.20 |
| Blacksburg | 53.6 | 0.003 | 50.9 | 0.000 | 10.5 | 0.182 | 8.8 | 0.070 | 8.42 |
| Bluemoon | 46.4 | 0.000 | 52.7 | 0.000 | 11.0 | 0.522 | 8.6 | 0.002 | 9.02 |
| Chicago 2 | | | 46.4 | 0.000 | | | 6.9 | 0.000 | 5.89 |
| Freedom 2 | 53.2 | 0.010 | 46.8 | 0.000 | 9.3 | 0.000 | 7.9 | 0.000 | 8.02 |
| Glade | 43.9 | 0.000 | 53.9 | 0.081 | 11.3 | 0.126 | 10.3 | 0.000 | 9.12 |
| Impact | 45.9 | 0.000 | 51.0 | 0.000 | 10.2 | 0.004 | 8.8 | 0.056 | 8.30 |
| Liberator | 46.0 | 0.000 | 52.6 | 0.000 | 10.9 | 0.908 | 9.0 | 0.223 | 8.83 |
| Limousine | 47.2 | 0.000 | 45.7 | 0.000 | 9.8 | 0.000 | 7.8 | 0.000 | 7.55 |
| Midnight | 54.3 | 0.000 | 60.8 | 0.000 | 10.4 | 0.058 | 8.4 | 0.000 | 8.17 |
| Nugget | 40.5 | 0.000 | 44.8 | 0.000 | 8.9 | 0.000 | 8.7 | 0.053 | 6.93 |
| NuGlade | 53.9 | 0.001 | 52.8 | 0.000 | 11.2 | 0.226 | 9.8 | 0.036 | 9.29 |
| Odyssey | 44.6 | 0.000 | 56.7 | 0.032 | 10.9 | 0.924 | 11.8 | 0.000 | 9.23 |
| QuantumLeap | 60.0 | 0.000 | 51.2 | 0.000 | 10.8 | 0.860 | 9.3 | 0.931 | 8.93 |
| Rambo | 46.8 | 0.000 | 52.9 | 0.000 | 10.0 | 0.001 | 8.4 | 0.000 | 8.21 |
| Rugby 2 | 45.8 | 0.000 | 54.8 | 0.444 | 9.8 | 0.000 | 9.2 | 0.669 | 8.22 |
| Total Eclipse | 48.0 | 0.001 | 53.9 | 0.036 | 9.5 | 0.000 | 8.8 | 0.028 | 7.59 |
| Touchdown | 60.8 | 0.000 | 66.1 | 0.000 | 16.5 | 0.000 | 14.3 | 0.000 | 12.23 |

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

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Table 2. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

| Variety | Flagleaf length (cm) | | | Flagleaf width (mm) | | | Flagleaf length-to-width ratio (cm cm ⁻¹) | | |
|---------------|----------------------|-------------|------|---------------------|-------------|-------------|----------------------------------------------------------|-------------|------|
| | | | | 1999 prob. | | | 1999 prob. | | |
| | 1999 | prob. | 2000 | prob. | 1999 | prob. | 2000 | prob. | 1999 |
| Tsunami | 5.18 | 4.04 | | | 4.47 | 2.61 | 12.5 | 16.2 | |
| 94-2695 | 5.90 | 0.009 | 4.04 | 1.000 | 3.71 | 0.000 | 2.58 | 0.676 | 16.2 |
| Beyond | 4.76 | 0.124 | 4.25 | 0.247 | 3.09 | 0.000 | 2.14 | 0.000 | 15.6 |
| Absolute | 5.27 | 0.734 | 3.88 | 0.370 | 4.39 | 0.573 | 3.00 | 0.000 | 12.3 |
| Arcadia | 5.59 | 0.130 | 3.81 | 0.192 | 3.56 | 0.000 | 2.51 | 0.162 | 18.3 |
| Award | 5.38 | 0.466 | 4.05 | 0.974 | 3.43 | 0.000 | 2.15 | 0.000 | 16.2 |
| Baron | 4.63 | 0.047 | 3.28 | 0.001 | 3.71 | 0.000 | 3.38 | 0.000 | 14.2 |
| Blacksburg | 5.18 | 0.990 | 3.45 | 0.008 | 4.20 | 0.081 | 2.97 | 0.000 | 12.5 |
| Bluemoon | 5.32 | 0.618 | 3.95 | 0.588 | 3.39 | 0.000 | 1.58 | 0.000 | 16.1 |
| Chicago 2 | | | 3.24 | 0.000 | | | 1.76 | 0.000 | |
| Freedom 2 | 4.28 | 0.001 | 3.05 | 0.000 | 3.19 | 0.000 | 2.58 | 0.644 | 14.4 |
| Glade | 4.56 | 0.025 | 4.08 | 0.880 | 3.38 | 0.000 | 2.42 | 0.040 | 13.8 |
| Impact | 4.93 | 0.359 | 4.18 | 0.451 | 3.37 | 0.000 | 1.54 | 0.000 | 14.8 |
| Liberator | 6.06 | 0.001 | 4.33 | 0.111 | 3.47 | 0.000 | 1.98 | 0.000 | 18.1 |
| Limousine | 4.36 | 0.003 | 3.42 | 0.005 | 3.33 | 0.000 | 2.56 | 0.549 | 14.4 |
| Midnight | 5.39 | 0.433 | 4.09 | 0.768 | 3.18 | 0.000 | 2.44 | 0.010 | 17.3 |
| Nugget | 3.49 | 0.000 | 3.46 | 0.008 | 3.03 | 0.000 | 2.70 | 0.298 | 12.2 |
| NuGlade | 5.14 | 0.894 | 4.01 | 0.857 | 3.84 | 0.000 | 2.46 | 0.046 | 13.7 |
| Odyssey | 5.09 | 0.743 | 4.49 | 0.014 | 4.07 | 0.009 | 2.54 | 0.361 | 12.7 |
| QuantumLeap | 5.11 | 0.813 | 4.18 | 0.465 | 3.50 | 0.000 | 2.30 | 0.000 | 14.9 |
| Rambo | 4.75 | 0.114 | 4.18 | 0.462 | 3.35 | 0.000 | 2.44 | 0.024 | 14.3 |
| Rugby 2 | 4.77 | 0.133 | 4.45 | 0.022 | 3.16 | 0.000 | 1.39 | 0.000 | 15.6 |
| Total Eclipse | 4.29 | 0.001 | 3.75 | 0.102 | 2.75 | 0.000 | 2.25 | 0.000 | 15.9 |
| Touchdown | 5.31 | 0.643 | 3.65 | 0.079 | 3.85 | 0.000 | 4.80 | 0.000 | 14.8 |

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

Table 3. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

| Variety | Second leaf length (cm) | | | Second leaf width (mm) | | | Length-to-width ratio (cm cm ⁻¹) | | | | | |
|---------------|-------------------------|-------|-------------|------------------------|-------------|-------|----------------------------------------------|-------|-------------|-------|-------------|-------|
| | 1999 | prob. | 2000 | prob. | 1999 | prob. | 2000 | prob. | 1999 | prob. | 2000 | prob. |
| Tsunami | 7.31 | | 8.00 | | 4.50 | | 2.69 | | 17.1 | | 31.8 | |
| 94-2695 | 7.71 | 0.241 | 7.17 | 0.002 | 4.14 | 0.024 | 2.76 | 0.752 | 19.4 | 0.063 | 28.6 | 0.119 |
| Beyond | 8.37 | 0.002 | 7.72 | 0.287 | 3.51 | 0.000 | 2.13 | 0.015 | 24.9 | 0.000 | 41.1 | 0.000 |
| Absolute | 8.57 | 0.000 | 7.57 | 0.100 | 5.08 | 0.000 | 2.70 | 0.968 | 17.1 | 0.993 | 31.3 | 0.804 |
| Arcadia | 8.35 | 0.002 | 7.53 | 0.073 | 4.90 | 0.009 | 2.69 | 0.983 | 17.4 | 0.816 | 32.2 | 0.850 |
| Award | 8.82 | 0.000 | 7.89 | 0.681 | 3.83 | 0.000 | 2.45 | 0.301 | 23.9 | 0.000 | 35.1 | 0.111 |
| Baron | 6.70 | 0.068 | 5.87 | 0.000 | 5.31 | 0.000 | 3.08 | 0.176 | 13.4 | 0.003 | 24.4 | 0.004 |
| Blacksburg | 7.29 | 0.937 | 6.49 | 0.000 | 4.17 | 0.036 | 3.20 | 0.066 | 18.0 | 0.456 | 21.5 | 0.000 |
| Bluemoon | 8.70 | 0.000 | 6.90 | 0.000 | 3.70 | 0.000 | 1.76 | 0.000 | 24.7 | 0.000 | 45.0 | 0.000 |
| Chicago 2 | | | 4.93 | 0.000 | | | 2.09 | 0.009 | | | 26.6 | 0.012 |
| Freedom 2 | 7.26 | 0.862 | 5.81 | 0.000 | 3.88 | 0.000 | 2.45 | 0.300 | 19.5 | 0.055 | 25.2 | 0.002 |
| Glade | 6.84 | 0.157 | 6.81 | 0.000 | 3.74 | 0.000 | 2.65 | 0.887 | 19.2 | 0.094 | 28.8 | 0.242 |
| Impact | 8.68 | 0.000 | 7.79 | 0.429 | 3.67 | 0.000 | 1.72 | 0.000 | 24.6 | 0.000 | 51.6 | 0.000 |
| Liberator | 8.49 | 0.000 | 7.98 | 0.955 | 3.75 | 0.000 | 1.97 | 0.002 | 23.5 | 0.000 | 44.2 | 0.000 |
| Limousine | 6.05 | 0.000 | 5.84 | 0.000 | 3.15 | 0.000 | 2.71 | 0.939 | 20.7 | 0.004 | 22.4 | 0.000 |
| Midnight | 7.42 | 0.747 | 7.74 | 0.272 | 3.74 | 0.000 | 2.65 | 0.838 | 20.3 | 0.011 | 30.8 | 0.584 |
| Nugget | 5.51 | 0.000 | 5.85 | 0.000 | 3.28 | 0.000 | 2.64 | 0.873 | 18.1 | 0.409 | 22.7 | 0.000 |
| NuGlade | 8.17 | 0.011 | 8.46 | 0.074 | 3.82 | 0.000 | 2.80 | 0.635 | 22.0 | 0.000 | 31.3 | 0.818 |
| Odyssey | 8.30 | 0.003 | 9.12 | 0.000 | 4.48 | 0.924 | 2.70 | 0.965 | 19.3 | 0.077 | 34.2 | 0.262 |
| QuantumLeap | 7.91 | 0.078 | 7.93 | 0.797 | 3.80 | 0.000 | 2.30 | 0.092 | 21.5 | 0.000 | 37.4 | 0.007 |
| Rambo | 7.88 | 0.092 | 7.78 | 0.416 | 3.76 | 0.000 | 3.44 | 0.001 | 21.8 | 0.000 | 32.2 | 0.859 |
| Rugby 2 | 8.03 | 0.032 | 8.45 | 0.084 | 3.29 | 0.000 | 1.51 | 0.000 | 25.6 | 0.000 | 59.3 | 0.000 |
| Total Eclipse | 7.10 | 0.528 | 7.49 | 0.053 | 2.78 | 0.000 | 2.33 | 0.117 | 27.2 | 0.000 | 36.8 | 0.017 |
| Touchdown | 7.38 | 0.846 | 7.53 | 0.139 | 4.54 | 0.765 | 5.80 | 0.000 | 17.9 | 0.499 | 14.7 | 0.000 |

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

Table 4. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

| Variety | Lowest internode in panicle (cm) | | | Panicle length minus lowest internode (cm) | | | Internode below panicle node (cm) | | |
|---------------|----------------------------------|-------|-------------|--------------------------------------------|-------------|-------|-----------------------------------|-------|-------------|
| | 1999 | prob. | 2000 | prob. | 1999 | prob. | 2000 | prob. | 2000 |
| Tsunami | 2.04 | | 1.51 | | 6.86 | | 5.93 | | 29.0 |
| 94-2695 | 2.34 | 0.000 | 1.87 | 0.000 | 7.81 | 0.000 | 7.12 | 0.000 | 38.1 |
| Beyond | 1.91 | 0.007 | 1.57 | 0.127 | 6.40 | 0.007 | 5.66 | 0.017 | 27.3 |
| Absolute | 2.00 | 0.477 | 1.32 | 0.000 | 6.30 | 0.001 | 5.37 | 0.000 | 28.8 |
| Arcadia | 2.17 | 0.006 | 1.51 | 0.834 | 6.94 | 0.614 | 5.62 | 0.006 | 31.2 |
| Award | 2.12 | 0.091 | 1.53 | 0.490 | 6.90 | 0.798 | 5.80 | 0.239 | 30.3 |
| Baron | 2.07 | 0.588 | 1.56 | 0.283 | 7.14 | 0.096 | 5.83 | 0.486 | 26.5 |
| Blacksburg | 1.97 | 0.136 | 1.33 | 0.000 | 6.46 | 0.018 | 5.34 | 0.000 | 34.8 |
| Bluemoon | 2.07 | 0.542 | 1.53 | 0.569 | 6.96 | 0.558 | 5.75 | 0.120 | 28.1 |
| Chicago 2 | | | 1.29 | 0.000 | | | 4.60 | 0.000 | |
| Freedom 2 | 1.88 | 0.002 | 1.28 | 0.000 | 6.13 | 0.000 | 5.11 | 0.000 | 29.7 |
| Glade | 1.98 | 0.264 | 1.94 | 0.000 | 7.14 | 0.096 | 6.96 | 0.000 | 30.5 |
| Impact | 1.84 | 0.000 | 1.59 | 0.031 | 6.47 | 0.021 | 5.81 | 0.300 | 28.1 |
| Liberator | 1.94 | 0.050 | 1.51 | 0.834 | 6.88 | 0.875 | 5.61 | 0.005 | 28.6 |
| Limousine | 1.81 | 0.000 | 1.42 | 0.085 | 5.74 | 0.000 | 4.62 | 0.000 | 30.8 |
| Midnight | 1.95 | 0.078 | 1.55 | 0.179 | 6.22 | 0.000 | 5.18 | 0.000 | 28.9 |
| Nugget | 1.66 | 0.000 | 1.54 | 0.463 | 5.27 | 0.000 | 5.43 | 0.000 | 27.9 |
| NuGlade | 2.11 | 0.165 | 1.46 | 0.218 | 7.19 | 0.051 | 6.11 | 0.098 | 30.7 |
| Odyssey | 2.08 | 0.416 | 1.68 | 0.000 | 7.15 | 0.085 | 6.65 | 0.000 | 28.1 |
| QuantumLeap | 2.05 | 0.866 | 1.44 | 0.115 | 6.88 | 0.890 | 5.75 | 0.112 | 30.6 |
| Rambo | 1.82 | 0.000 | 1.43 | 0.047 | 6.39 | 0.006 | 5.51 | 0.000 | 27.7 |
| Rugby 2 | 1.87 | 0.000 | 1.60 | 0.014 | 6.35 | 0.003 | 5.91 | 0.920 | 27.1 |
| Total Eclipse | 1.77 | 0.000 | 1.52 | 0.631 | 5.82 | 0.000 | 5.59 | 0.002 | 26.7 |
| Touchdown | 3.26 | 0.000 | 2.36 | 0.000 | 8.98 | 0.000 | 8.19 | 0.000 | 37.3 |

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

Table 5. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

| Variety | Branches at lowest panicle whorl | | | Panicle node to flagleaf collar (cm) | | | Culm length up to flagleaf node (cm) | | | |
|----------------|----------------------------------|-------|-------------|--------------------------------------|-------------|-------|--------------------------------------|-------|-------------|-------|
| | 1999 | prob. | 2000 | prob. | 1999 | prob. | 2000 | prob. | 1999 | prob. |
| Tsunami | 4.22 | | 3.50 | | 18.2 | | 14.8 | | 13.2 | |
| 94-2695 | 4.56 | 0.016 | 3.19 | 0.004 | 25.1 | 0.000 | 15.2 | 0.406 | 9.0 | 0.000 |
| Beyond | 3.78 | 0.002 | 3.18 | 0.003 | 17.2 | 0.120 | 14.6 | 0.681 | 13.1 | 0.893 |
| Absolute | 3.90 | 0.025 | 3.01 | 0.000 | 17.2 | 0.138 | 10.7 | 0.000 | 24.8 | 0.000 |
| Arcadia | 4.35 | 0.347 | 3.28 | 0.041 | 20.5 | 0.000 | 14.2 | 0.200 | 9.6 | 0.000 |
| Award | 4.25 | 0.814 | 3.43 | 0.529 | 19.5 | 0.033 | 16.5 | 0.000 | 19.1 | 0.000 |
| Baron | 4.68 | 0.001 | 3.70 | 0.123 | 14.8 | 0.000 | 9.1 | 0.000 | 6.4 | 0.000 |
| Blacksburg | 4.17 | 0.724 | 3.48 | 0.898 | 24.2 | 0.000 | 16.8 | 0.001 | 10.5 | 0.002 |
| Bluemoon | 4.03 | 0.196 | 3.27 | 0.027 | 17.1 | 0.094 | 14.8 | 0.992 | 9.7 | 0.000 |
| Chicago 2 | | | 3.78 | 0.007 | | | 17.6 | 0.000 | | |
| Freedom 2 | 4.90 | 0.000 | 4.13 | 0.000 | 20.4 | 0.001 | 14.3 | 0.349 | 15.5 | 0.005 |
| Glade | 4.08 | 0.347 | 3.03 | 0.000 | 19.2 | 0.089 | 15.3 | 0.348 | 5.9 | 0.000 |
| Impact | 4.00 | 0.126 | 3.30 | 0.061 | 17.9 | 0.702 | 15.0 | 0.708 | 10.1 | 0.000 |
| Liberator | 3.97 | 0.078 | 3.23 | 0.012 | 17.7 | 0.444 | 13.6 | 0.010 | 9.5 | 0.000 |
| Limousine | 4.97 | 0.000 | 3.93 | 0.001 | 21.0 | 0.000 | 14.8 | 0.950 | 9.4 | 0.000 |
| Midnight | 3.98 | 0.100 | 2.97 | 0.000 | 18.5 | 0.578 | 17.1 | 0.000 | 17.2 | 0.000 |
| Nugget | 3.85 | 0.010 | 2.87 | 0.000 | 19.0 | 0.196 | 13.2 | 0.006 | 7.9 | 0.000 |
| NuGlade | 4.23 | 0.906 | 3.48 | 0.875 | 19.5 | 0.031 | 12.5 | 0.000 | 13.9 | 0.366 |
| Odyssey | 4.47 | 0.078 | 3.83 | 0.002 | 17.3 | 0.174 | 11.6 | 0.000 | 8.7 | 0.000 |
| QuantumLeap | 4.43 | 0.126 | 3.38 | 0.270 | 19.7 | 0.013 | 13.4 | 0.004 | 20.5 | 0.000 |
| Rambo | 4.13 | 0.556 | 3.39 | 0.318 | 17.7 | 0.447 | 13.5 | 0.009 | 11.2 | 0.019 |
| Rugby 2 | 4.02 | 0.158 | 3.47 | 0.813 | 17.4 | 0.214 | 13.2 | 0.001 | 10.8 | 0.006 |
| Total Eclipse | 3.73 | 0.001 | 3.33 | 0.098 | 17.2 | 0.144 | 14.4 | 0.474 | 13.8 | 0.489 |
| Touchdown | 3.55 | 0.000 | 3.30 | 0.123 | 20.8 | 0.000 | 14.9 | 0.827 | 11.6 | 0.055 |

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

Table 6. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999, 2000, and 2001. Missing values indicate varieties not tested in a given year.

| Variety | Panicle fresh weight (g/10 panicles) | | | Seed length (mm) | | | Seed width (mm) | | | | | |
|---------------|--------------------------------------|-------|-------------|------------------|-------------|-------|-----------------|-------|-------------|-------|-------------|-------|
| | 1999 | prob. | 2000 | prob. | 2001 | prob. | 1999 | prob. | 2000 | prob. | 2001 | prob. |
| Tsunami | 1.26 | | 1.80 | | 1.42 | | 3.09 | | 2.78 | | 2.92 | |
| 94-2695 | 1.86 | 0.000 | 2.11 | 0.068 | 1.43 | 0.878 | 3.13 | 0.236 | 2.97 | 0.000 | 2.98 | 0.104 |
| Beyond | 0.92 | 0.035 | 1.50 | 0.074 | 1.59 | 0.047 | 3.14 | 0.161 | 2.83 | 0.124 | 2.89 | 0.406 |
| Absolute | 2.18 | 0.000 | 1.85 | 0.740 | | | 3.14 | 0.139 | 2.86 | 0.010 | 3.02 | 0.000 |
| Arcadia | 2.04 | 0.000 | 2.23 | 0.011 | | | 3.10 | 0.700 | 2.90 | 0.000 | 2.94 | 0.681 |
| Award | 2.22 | 0.000 | 1.82 | 0.905 | 1.21 | 0.015 | | | | | 0.69 | 0.084 |
| Baron | 2.23 | 0.000 | 2.27 | 0.024 | 1.92 | 0.000 | | | | | 0.71 | 0.902 |
| Blacksburg | 1.76 | 0.011 | 1.42 | 0.067 | 2.08 | 0.000 | | | | | 0.76 | 0.63 |
| Bluemoon | 1.45 | 0.240 | 1.53 | 0.118 | 1.78 | 0.000 | | | | | 0.76 | 0.000 |
| Chicago 2 | | | 1.98 | 0.295 | 1.66 | 0.005 | | | | | 0.68 | 0.000 |
| Freedom 2 | 1.72 | 0.018 | 1.49 | 0.068 | 1.23 | 0.030 | | | | | 0.66 | 0.024 |
| Glade | 1.40 | 0.463 | 1.80 | 0.995 | 1.60 | 0.035 | | | | | 0.66 | 0.213 |
| Impact | 1.36 | 0.517 | 1.41 | 0.021 | | | | | | | 0.69 | 0.000 |
| Liberator | 1.65 | 0.015 | 1.55 | 0.145 | 1.28 | 0.100 | | | | | 0.69 | 0.74 |
| Limousine | 1.40 | 0.471 | 1.01 | 0.000 | | | | | | | 0.69 | 0.003 |
| Midnight | 1.87 | 0.000 | 1.59 | 0.212 | 1.79 | 0.000 | | | | | 0.66 | 0.428 |
| Nugget | 1.30 | 0.826 | 1.18 | 0.003 | 1.20 | 0.010 | | | | | 0.69 | 0.000 |
| NuGlade | 2.10 | 0.000 | 2.01 | 0.213 | 1.67 | 0.005 | | | | | 0.72 | 0.240 |
| Odyssey | 2.19 | 0.000 | 1.88 | 0.610 | | | | | | | 0.64 | 0.269 |
| QuantumLeap | 1.80 | 0.001 | 1.99 | 0.250 | | | | | | | 0.68 | 0.002 |
| Rambo | 1.64 | 0.018 | 1.43 | 0.028 | | | | | | | 0.68 | 0.290 |
| Rugby 2 | 1.44 | 0.249 | 1.86 | 0.708 | | | | | | | 0.69 | 0.194 |
| Total Eclipse | 1.11 | 0.361 | 1.31 | 0.004 | | | | | | | 0.70 | 0.293 |
| Touchdown | 2.33 | 0.000 | 1.94 | 0.492 | 2.57 | 0.000 | | | | | 0.72 | 0.63 |
| | | | | | | | 2.92 | 0.001 | 2.91 | 0.843 | | 0.818 |
| | | | | | | | | | | | 0.72 | 0.000 |
| | | | | | | | | | | | 0.73 | 0.031 |

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

Table 7. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999, 2000, and 2001. Missing values indicate varieties not tested in a given year.

| Variety | Seed length-to-width ratio (cm cm ⁻¹) | | | | Seed weight per 100 seeds (g) | | | |
|----------------|---------------------------------------------------|---------------|---------------|---------------|-------------------------------|---------------|---------------|---------------|
| | 1999 prob. | 2000 prob. | 2001 prob. | 1999 prob. | 2000 prob. | Seeds per lb. | 2000 prob. | 2001 prob. |
| Tsunami | 4.40 | 4.49 | 4.20 | 0.045 | 1015084 | 0.032 | 0.041 | |
| 94-2695 | 4.37 | 0.658 | 4.33 | 0.030 | 4.31 | 0.055 | 0.046 | 0.715 |
| Beyond | 4.46 | 0.338 | 4.52 | 0.688 | 4.30 | 0.064 | 0.043 | 0.213 |
| Absolute | | | 4.50 | 0.852 | | | | |
| Arcadia | 4.49 | 0.129 | 4.42 | 0.312 | | 0.045 | 0.868 | 1017250 |
| Award | 4.53 | 0.027 | 4.50 | 0.849 | 4.42 | 0.000 | 0.038 | 0.000 |
| Baron | | | 3.99 | 0.000 | 4.09 | 0.127 | | |
| Blacksburg | | | 3.83 | 0.000 | 3.61 | 0.000 | | |
| Bluemoon | 4.53 | 0.038 | 4.59 | 0.144 | 4.50 | 0.000 | 0.039 | 0.000 |
| Chicago 2 | | | 4.47 | 0.784 | 4.12 | 0.298 | | |
| Freedom 2 | | | 4.55 | 0.374 | 4.41 | 0.002 | | |
| Glade | 4.31 | 0.229 | 4.47 | 0.829 | 4.37 | 0.013 | 0.042 | 0.080 |
| Impact | 4.23 | 0.005 | 4.40 | 0.198 | | | 0.036 | 0.000 |
| Liberator | 4.46 | 0.357 | 4.39 | 0.152 | 4.42 | 0.000 | 0.036 | 0.000 |
| Limousine | | | 4.60 | 0.208 | | | | |
| Midnight | 4.39 | 0.789 | 4.43 | 0.411 | 4.24 | 0.365 | 0.040 | 0.001 |
| Nugget | 4.45 | 0.512 | 4.67 | 0.039 | 4.25 | 0.484 | 0.050 | 0.014 |
| NuGraide | 4.50 | 0.086 | 4.49 | 0.951 | 4.40 | 0.000 | 0.038 | 0.000 |
| Odyssey | 4.67 | 0.000 | 4.57 | 0.258 | | | 0.035 | 0.000 |
| QuantumLeap | 4.58 | 0.003 | 4.37 | 0.084 | | | 0.036 | 0.000 |
| Rambo | 4.49 | 0.151 | 4.53 | 0.555 | | | 0.040 | 0.001 |
| Rugby 2 | 4.38 | 0.689 | 4.39 | 0.160 | | | 0.040 | 0.001 |
| Total Eclipse | 4.45 | 0.437 | 4.45 | 0.613 | | | 0.042 | 0.028 |
| Touchdown | | | 4.07 | 0.000 | 4.04 | 0.023 | | |

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

Table 8. Morphological characteristics of Kentucky bluegrass (*Poa pratensis* L.) cultivars at reproductive maturity, near Rathdrum, ID, in 1999 and 2000. Missing values indicate varieties not tested in a given year.

| Variety | Reproductive maturity rating, 30 May (1-9 scale, 9=early) | | | Reproductive maturity rating, 7 June (1-9 scale, 9=early) | | |
|---------------|--------------------------------------------------------------|---------------|---------------|--------------------------------------------------------------|---------------|---------------|
| | 1999 prob. | 2000 prob. | 1999 prob. | 2000 prob. | 1999 prob. | 2000 prob. |
| Tsunami | 2.6 | | 4.5 | | 6.6 | |
| 94-2695 | 5.2 | 0.000 | 7.0 | 0.000 | 7.3 | 0.128 |
| Beyond | 1.9 | 0.081 | 4.3 | 0.673 | 5.8 | 0.128 |
| Absolute | 5.2 | 0.000 | 7.6 | 0.000 | 7.9 | 0.009 |
| Arcadia | 3.4 | 0.020 | 4.8 | 0.399 | 6.4 | 0.828 |
| Award | 2.1 | 0.244 | 3.4 | 0.006 | 4.8 | 0.001 |
| Baron | 7.2 | 0.000 | 8.0 | 0.000 | 8.4 | 0.000 |
| Blacksburg | 5.2 | 0.000 | 6.7 | 0.000 | 7.7 | 0.030 |
| Bluemoon | 1.8 | 0.042 | 4.5 | 1.000 | 5.7 | 0.082 |
| Chicago 2 | | | 6.5 | 0.000 | | |
| Freedom 2 | 4.6 | 0.000 | 6.3 | 0.000 | 7.6 | 0.051 |
| Glade | 5.2 | 0.000 | 7.0 | 0.000 | 7.1 | 0.276 |
| Impact | 2.4 | 0.771 | 4.8 | 0.399 | 5.4 | 0.030 |
| Liberator | 2.2 | 0.382 | 4.5 | 1.000 | 5.8 | 0.128 |
| Limousine | 6.4 | 0.000 | 7.3 | 0.000 | 8.0 | 0.005 |
| Midnight | 2.6 | 1.000 | 4.3 | 0.673 | 5.0 | 0.002 |
| Nugget | 7.1 | 0.000 | 8.0 | 0.000 | 8.4 | 0.000 |
| NuGlade | 2.7 | 0.771 | 4.6 | 0.833 | 5.6 | 0.051 |
| Odyssey | 2.4 | 0.771 | 4.0 | 0.206 | 4.8 | 0.001 |
| QuantumLeap | 2.8 | 0.560 | 4.7 | 0.673 | 5.4 | 0.030 |
| Rambo | 2.0 | 0.146 | 3.9 | 0.140 | 6.0 | 0.276 |
| Rugby 2 | 2.0 | 0.146 | 4.6 | 0.833 | 5.0 | 0.002 |
| Total Eclipse | 2.1 | 0.244 | 4.7 | 0.673 | 5.4 | 0.030 |
| Touchdown | 9.0 | 0.000 | 9.0 | 0.000 | 9.0 | 0.000 |

*Prob. = Probability that the variety mean is not significantly different from the variety listed at the top of the table. For example, a value of 0.050 or less would indicate significance at the 5% level of probability. Data were analyzed with ANOVA and means were separated with LSD using pair-wise comparisons, based on individual degrees of freedom.

TABLE 12.

Table 9. 2000-2001 NTEP report for genetic color.
GENETIC COLOR RATINGS OF KENTUCKY BLUEGRASS CULTIVARS 1/
2/ 2001 DATA

| NAME | GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--------------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|
| | CO1 | IA1 | II2 | IL3 | IN1 | KY1 | MA1 | MD1 | ME1 | M1 | M01 | NC1 | NE1 | NY1 | OK1 | PA1 | RI1 | SD1 | UT1 | VA1 | WA1 | WA3 | WI1 | MEAN | | | | | |
| BA 84-140 | 7.0 | 8.7 | 7.7 | 8.3 | 7.7 | 8.0 | 9.0 | 9.0 | 7.7 | 7.3 | 7.7 | 9.0 | 9.0 | 7.7 | 7.7 | 6.0 | 8.7 | 8.0 | 7.7 | 7.0 | 6.7 | 9.0 | 7.0 | 7.9 | | | | | |
| MOONLIGHT | 8.0 | 8.0 | 8.0 | 8.0 | 7.3 | 9.0 | 7.0 | 7.3 | 9.0 | 7.7 | 8.3 | 7.7 | 8.0 | 8.7 | 7.7 | 6.0 | 8.3 | 8.7 | 7.0 | 7.3 | 7.7 | 8.7 | 6.7 | 7.8 | | | | | |
| CHICAGO 11 | 7.3 | 8.3 | 8.0 | 7.0 | 7.3 | 8.0 | 8.3 | 8.0 | 9.0 | 6.7 | 7.3 | 7.7 | 8.3 | 8.0 | 7.3 | 6.0 | 9.0 | 8.7 | 8.0 | 6.0 | 6.7 | 8.0 | 7.3 | 7.7 | | | | | |
| IB7-308 | 6.3 | 8.3 | 8.0 | 7.0 | 7.0 | 9.0 | 7.0 | 8.0 | 9.0 | 6.3 | 6.7 | 8.0 | 8.7 | 8.0 | 8.3 | 8.0 | 6.3 | 8.7 | 8.0 | 7.0 | 6.7 | 9.0 | 7.3 | 6.0 | 7.6 | | | | |
| PST-B5-89 | 7.3 | 8.3 | 8.3 | 8.3 | 7.3 | 8.7 | 6.3 | 8.0 | 9.0 | 7.0 | 6.7 | 7.3 | 8.0 | 8.0 | 8.0 | 8.7 | 5.7 | 8.7 | 8.0 | 7.3 | 6.0 | 7.3 | 7.0 | 6.7 | 7.7 | | | | |
| BLUE RIDGE (A97-1449) | 7.3 | 8.0 | 6.3 | 6.3 | 7.7 | 9.0 | 7.0 | 8.7 | 9.0 | 7.0 | 7.0 | 7.7 | 8.0 | 7.0 | 7.7 | 7.7 | 6.7 | 8.7 | 7.0 | 7.0 | 5.7 | 7.0 | 7.0 | 6.3 | 7.6 | | | | |
| QUANTUM LEAP | 7.7 | 8.3 | 8.0 | 6.0 | 7.0 | 9.0 | 6.7 | 8.0 | 8.7 | 7.3 | 7.0 | 6.3 | 8.0 | 7.7 | 7.7 | 6.3 | 6.0 | 8.0 | 8.3 | 7.7 | 6.0 | 7.0 | 6.3 | 7.4 | 7.4 | | | | |
| AWARD | 7.7 | 8.3 | 7.0 | 6.3 | 6.7 | 9.0 | 6.7 | 7.7 | 8.7 | 7.7 | 7.3 | 7.7 | 7.3 | 7.3 | 6.7 | 6.0 | 6.0 | 8.3 | 8.3 | 6.7 | 7.7 | 6.0 | 6.3 | 7.0 | 7.3 | | | | |
| PST-222 | 7.0 | 8.0 | 5.3 | 7.7 | 7.3 | 9.0 | 6.7 | 8.0 | 8.7 | 7.0 | 6.3 | 7.3 | 7.3 | 7.7 | 7.7 | 7.0 | 6.0 | 8.0 | 8.0 | 7.7 | 7.7 | 6.7 | 6.3 | 9.0 | 7.3 | | | | |
| J-1513 | 7.0 | 8.7 | 8.0 | 5.7 | 7.0 | 9.0 | 6.3 | 7.0 | 8.7 | 7.7 | 7.3 | 7.0 | 7.3 | 7.7 | 7.7 | 5.0 | 6.0 | 8.0 | 8.0 | 7.7 | 8.3 | 6.3 | 6.0 | 8.3 | 7.0 | 7.3 | | | |
| J-2890 | 6.3 | 8.3 | 8.7 | 5.7 | 7.0 | 9.0 | 6.0 | 7.3 | 9.0 | 7.0 | 6.7 | 6.0 | 7.0 | 8.0 | 7.7 | 6.0 | 6.0 | 8.0 | 8.0 | 8.0 | 7.7 | 5.7 | 6.7 | 9.0 | 7.7 | 7.2 | | | |
| BOOMERANG | 7.0 | 8.3 | 7.0 | 6.7 | 7.0 | 7.7 | 7.3 | 7.7 | 8.0 | 6.7 | 6.0 | 7.0 | 8.3 | 9.0 | 6.3 | 7.7 | 6.3 | 8.3 | 8.0 | 7.0 | 8.0 | 7.7 | 6.0 | 8.7 | 5.7 | 6.0 | 7.2 | | |
| BAR PP 0566 | 6.7 | 8.3 | 5.7 | 7.3 | 7.3 | 8.0 | 6.3 | 8.0 | 8.7 | 7.3 | 7.7 | 6.0 | 7.7 | 7.7 | 8.3 | 7.0 | 7.0 | 6.0 | 7.0 | 7.0 | 7.3 | 7.0 | 6.7 | 5.3 | 8.0 | 6.0 | 7.2 | | |
| BLUESTONE (PST-731) | 7.7 | 8.3 | 8.0 | 5.3 | 6.3 | 8.7 | 6.3 | 7.7 | 7.7 | 7.0 | 7.7 | 6.0 | 7.7 | 7.7 | 8.0 | 7.3 | 5.7 | 5.7 | 8.0 | 8.7 | 7.7 | 8.0 | 6.7 | 5.3 | 8.7 | 7.0 | 7.2 | | |
| IMPACT | 8.0 | 8.0 | 7.3 | 4.3 | 6.7 | 9.0 | 6.3 | 7.7 | 8.3 | 7.3 | 6.7 | 8.0 | 8.3 | 7.0 | 6.3 | 6.0 | 8.0 | 8.0 | 8.0 | 7.3 | 5.7 | 6.7 | 6.0 | 9.0 | 7.3 | 6.0 | 7.2 | | |
| J-1515 | 6.7 | 8.3 | 7.7 | 6.0 | 6.3 | 8.7 | 6.7 | 7.0 | 8.7 | 7.3 | 8.0 | 6.7 | 7.7 | 7.0 | 7.7 | 6.0 | 6.0 | 8.3 | 8.3 | 8.0 | 7.7 | 6.3 | 6.0 | 8.7 | 6.3 | 6.0 | 7.2 | | |
| J-1838 | 6.3 | 8.0 | 6.7 | 6.0 | 7.0 | 9.0 | 6.7 | 7.3 | 8.7 | 7.0 | 7.7 | 6.3 | 7.3 | 8.3 | 7.3 | 6.0 | 6.0 | 7.8 | 7.0 | 7.7 | 6.3 | 6.0 | 7.3 | 6.3 | 6.0 | 7.2 | | | |
| RUGBY II | 8.0 | 8.0 | 7.0 | 5.3 | 7.0 | 8.7 | 6.7 | 7.3 | 8.7 | 7.3 | 7.3 | 5.3 | 7.7 | 7.7 | 7.7 | 5.0 | 6.0 | 8.0 | 8.7 | 7.0 | 8.0 | 6.0 | 5.7 | 6.7 | 7.7 | 7.0 | 7.2 | | |
| BARRISTER (J-1655) | 6.3 | 8.3 | 8.0 | 5.7 | 7.0 | 9.0 | 6.7 | 7.0 | 8.7 | 7.3 | 8.0 | 6.3 | 7.7 | 7.3 | 7.0 | 6.0 | 5.7 | 8.3 | 8.0 | 7.3 | 7.5 | 3 | 7.3 | 5.9 | 7.0 | 6.3 | 7.2 | | |
| BLACKSTONE | 8.0 | 8.3 | 5.7 | 6.3 | 6.7 | 8.7 | 6.3 | 7.0 | 8.7 | 7.7 | 7.7 | 7.0 | 8.0 | 7.3 | 6.3 | 6.7 | 6.0 | 8.3 | 7.3 | 6.7 | 7.3 | 6.0 | 6.7 | 9.0 | 6.3 | 6.3 | 7.2 | | |
| J-1420 | 7.3 | 8.3 | 7.3 | 7.0 | 6.7 | 9.0 | 6.3 | 7.3 | 8.3 | 7.0 | 7.3 | 7.0 | 7.7 | 7.0 | 7.7 | 6.3 | 6.0 | 7.7 | 8.3 | 8.0 | 7.3 | 5.3 | 6.0 | 6.7 | 8.3 | 7.3 | 6.7 | 7.2 | |
| MDNIGHT | 8.0 | 8.0 | 7.3 | 5.0 | 6.3 | 8.3 | 6.0 | 8.0 | 8.7 | 7.0 | 7.3 | 8.0 | 7.7 | 7.0 | 7.7 | 7.3 | 7.0 | 5.7 | 8.0 | 8.3 | 7.3 | 6.7 | 6.7 | 6.3 | 6.7 | 7.3 | 7.2 | | |
| A97-1409 | 5.7 | 8.0 | 7.7 | 7.7 | 7.0 | 8.7 | 7.0 | 7.7 | 8.3 | 7.0 | 6.3 | 7.7 | 7.7 | 7.3 | 7.0 | 6.0 | 5.7 | 8.3 | 8.0 | 7.0 | 7.3 | 7.7 | 6.3 | 7.3 | 8.7 | 7.0 | 6.0 | 7.2 | |
| EVEREST | 7.0 | 8.0 | 7.0 | 4.7 | 7.0 | 9.0 | 6.7 | 7.7 | 8.7 | 6.7 | 7.3 | 6.3 | 7.7 | 8.0 | 7.0 | 6.0 | 6.0 | 7.7 | 8.0 | 8.0 | 7.7 | 6.3 | 7.0 | 8.7 | 6.3 | 6.3 | 7.2 | | |
| EVERGLADE | 7.0 | 8.0 | 7.7 | 4.7 | 6.7 | 9.0 | 6.3 | 7.3 | 8.3 | 7.0 | 7.3 | 5.7 | 7.3 | 7.7 | 7.7 | 6.0 | 5.7 | 8.0 | 8.3 | 7.7 | 7.7 | 6.3 | 6.7 | 9.0 | 6.3 | 6.3 | 7.2 | | |
| MDNIGHT II (A98-739) | 5.0 | 8.7 | 7.7 | 6.7 | 6.3 | 9.0 | 6.0 | 8.0 | 8.7 | 7.0 | 7.3 | 6.7 | 7.7 | 7.7 | 7.3 | 5.7 | 6.0 | 8.0 | 8.3 | 8.0 | 7.7 | 5.3 | 6.0 | 6.7 | 8.3 | 7.3 | 6.7 | 7.2 | |
| J-1368 | 7.0 | 8.3 | 8.3 | 5.3 | 6.3 | 8.7 | 6.3 | 7.3 | 8.3 | 6.7 | 7.0 | 8.3 | 7.7 | 7.0 | 7.0 | 6.7 | 7.3 | 4.7 | 7.3 | 7.7 | 7.3 | 6.7 | 6.7 | 6.7 | 6.3 | 6.3 | 7.2 | | |
| A98-407 | 5.7 | 8.0 | 6.3 | 5.0 | 7.0 | 8.0 | 6.7 | 7.7 | 9.0 | 6.3 | 7.0 | 6.3 | 8.0 | 7.7 | 7.7 | 7.7 | 6.0 | 7.7 | 8.0 | 8.7 | 8.0 | 7.0 | 6.3 | 6.0 | 8.3 | 7.0 | 5.3 | 7.1 | |
| BLUE KNIGHT | 7.0 | 8.3 | 8.0 | 5.3 | 7.7 | 7.0 | 7.3 | 8.0 | 8.3 | 7.0 | 7.3 | 7.0 | 8.0 | 8.0 | 6.7 | 6.7 | 6.0 | 8.0 | 8.0 | 7.3 | 8.0 | 5.7 | 6.3 | 7.3 | 8.3 | 6.7 | 6.0 | 7.1 | |
| EXCURSION (J-1648) | 7.0 | 8.0 | 7.0 | 5.0 | 7.7 | 9.0 | 7.0 | 7.0 | 8.7 | 7.0 | 6.7 | 6.3 | 7.7 | 7.7 | 7.3 | 7.3 | 6.0 | 5.7 | 8.0 | 8.3 | 7.0 | 7.0 | 5.3 | 6.0 | 9.0 | 7.0 | 6.7 | 7.1 | |
| J-2561 | 6.7 | 8.3 | 7.3 | 5.0 | 6.7 | 8.7 | 6.3 | 7.3 | 8.0 | 7.0 | 7.3 | 6.7 | 7.7 | 7.7 | 7.3 | 6.0 | 5.7 | 7.7 | 8.0 | 7.7 | 7.7 | 6.0 | 6.7 | 8.3 | 7.3 | 7.0 | 7.1 | | |
| NA-K991 | 7.0 | 8.0 | 6.3 | 6.0 | 7.3 | 7.7 | 7.0 | 8.0 | 9.0 | 6.3 | 7.0 | 6.0 | 7.7 | 7.7 | 6.3 | 8.0 | 6.0 | 8.0 | 8.0 | 6.3 | 7.3 | 6.7 | 6.0 | 8.7 | 7.0 | 6.7 | 7.1 | | |
| J-2695 | 7.0 | 8.7 | 7.3 | 5.0 | 7.0 | 9.0 | 6.7 | 7.0 | 8.7 | 7.0 | 7.0 | 6.7 | 7.3 | 7.7 | 7.7 | 5.3 | 6.0 | 8.0 | 8.0 | 7.7 | 7.7 | 6.0 | 8.7 | 7.0 | 6.7 | 7.1 | 7.1 | | |
| BEYOND (J-1880) | 6.0 | 8.0 | 7.3 | 5.3 | 6.7 | 8.3 | 7.0 | 7.7 | 8.3 | 7.3 | 7.3 | 6.7 | 7.0 | 7.3 | 7.3 | 7.0 | 5.7 | 8.0 | 8.0 | 7.0 | 7.7 | 6.3 | 6.0 | 8.7 | 6.3 | 7.0 | 7.0 | | |
| PSI-604 | 7.7 | 8.0 | 5.7 | 8.3 | 7.3 | 8.0 | 6.3 | 7.3 | 8.7 | 6.0 | 7.3 | 6.7 | 8.0 | 7.3 | 7.0 | 7.7 | 6.0 | 5.7 | 8.0 | 8.0 | 6.7 | 7.0 | 5.0 | 6.0 | 6.3 | 8.0 | 6.7 | 6.3 | 7.1 |
| FREEDOM II | 7.0 | 8.3 | 6.7 | 7.3 | 6.7 | 8.0 | 6.7 | 7.7 | 8.3 | 7.7 | 7.3 | 7.7 | 7.0 | 7.3 | 5.7 | 6.0 | 6.0 | 8.0 | 7.7 | 6.7 | 7.0 | 6.0 | 8.0 | 5.3 | 7.0 | 7.0 | 6.7 | 7.1 | |
| ARCADIA | 7.3 | 8.0 | 7.7 | 4.0 | 6.7 | 9.0 | 6.0 | 7.7 | 9.0 | 7.0 | 7.3 | 6.7 | 7.3 | 7.3 | 6.7 | 6.7 | 5.7 | 6.0 | 8.0 | 8.0 | 7.3 | 5.3 | 6.0 | 6.7 | 8.0 | 6.7 | 6.0 | 7.0 | |
| UNKNOWN | 6.3 | 8.7 | 7.0 | 5.0 | 7.6 | 3 | 8.0 | 6.3 | 7.7 | 9.0 | 7.0 | 7.3 | 6.3 | 7.7 | 7.7 | 7.3 | 5.7 | 7.7 | 8.3 | 7.7 | 7.7 | 6.0 | 6.0 | 8.3 | 6.3 | 6.3 | 7.0 | | |
| TOTAL ECLIPSE | 8.0 | 8.0 | 6.7 | 4.3 | 6.0 | 8.7 | 6.3 | 7.7 | 9.0 | 8.0 | 7.7 | 5.7 | 7.7 | 7.7 | 7.3 | 5.3 | 5.7 | 7.7 | 7.7 | 7.0 | 7.0 | 6.3 | 6.3 | 8.7 | 6.7 | 7.0 | 7.0 | | |
| TSUNAMI (J-2487) | 7.0 | 8.7 | 7.0 | 4.7 | 6.7 | 9.0 | 6.0 | 7.3 | 8.3 | 7.0 | 7.0 | 5.7 | 7.3 | 7.3 | 7.0 | 5.7 | 6.0 | 8.7 | 8.0 | 7.7 | 7.3 | 5.7 | 6.3 | 7.0 | 6.7 | 7.0 | 7.0 | | |
| A97-1432 | 5.3 | 9.0 | 6.0 | 6.3 | 6.7 | 8.7 | 6.0 | 7.3 | 9.0 | 7.0 | 7.0 | 7.7 | 8.0 | 6.7 | 5.7 | 5.7 | 7.3 | 8.0 | 7.0 | 8.0 | 6.0 | 6.7 | 5.7 | 8.0 | 6.7 | 6.0 | 7.0 | 0 | |
| MALLARD (A97-1439) | 6.7 | 8.0 | 6.0 | 6.0 | 7.0 | 8.7 | 6.3 | 7.7 | 9.0 | 7.3 | 7.0 | 7.3 | 7.7 | 7.3 | 6.3 | 6.0 | 5.0 | 7.3 | 8.0 | 6.7 | 7.0 | 6.7 | 8.0 | 6.7 | 6.0 | 7.0 | 0 | | |
| A98-365 | 5.3 | 8.0 | 6.0 | 8.0 | 7.0 | 9.0 | 6.3 | 7.0 | 8.7 | 7.0 | 6.7 | 5.7 | 7.7 | 7.7 | 7.0 | 5.7 | 6.0 | 7.0 | 7.7 | 7.0 | 6.0 | 6.0 | 8.3 | 7.0 | 6.0 | 7.0 | 0 | | |
| SRX 27921 | 7.0 | 8.3 | 6.0 | 7.0 | 6.0 | 7.0 | 5.3 | 7.3 | 8.3 | 7.0 | 5.7 | 6.3 | 7.7 | 7.7 | 7.0 | 5.7 | 5.7 | 7.7 | 7.7 | 7.0 | 6.3 | 7.0 | 6.0 | 9.0 | 7.3 | 6.7 | 7.0 | 0 | |

TABLE 12. (CONT'D)

GENETIC COLOR RATINGS OF KENTUCKY BLUEGRASS CULTIVARS 1/ 2001 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

| NAME | C01 | I A1 | I L2 | I L3 | I N1 | K Y1 | M A1 | M D1 | M E1 | M I1 | M O1 | N C1 | N E1 | N E2 | N J1 | N J2 | N Y1 | O H1 | O K1 | P A1 | R I1 | S D1 | U T1 | V A1 | W A1 | W A3 | W I1 | MEAN |
|---------------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| BH 00-6003 | 6.3 | 8.0 | 7.3 | 6.0 | 7.0 | 9.0 | 6.7 | 7.7 | 8.7 | 6.7 | 5.7 | 7.7 | 8.0 | 6.7 | 6.3 | 5.7 | 7.0 | 8.0 | 7.0 | 7.7 | 6.0 | 6.0 | 8.7 | 5.7 | 5.7 | 7.0 | 6.9 | |
| BOUTIQUE | 7.3 | 8.3 | 5.3 | 6.7 | 6.0 | 7.7 | 6.3 | 7.3 | 9.0 | 7.0 | 7.0 | 7.3 | 7.3 | 6.3 | 6.0 | 8.7 | 8.0 | 7.0 | 6.3 | 5.0 | 6.7 | 7.0 | 7.7 | 6.7 | 6.0 | 6.0 | 7.0 | 6.9 |
| BORDEAUX | 7.0 | 8.0 | 6.0 | 6.3 | 6.7 | 9.0 | 6.7 | 8.0 | 9.0 | 6.7 | 6.7 | 8.0 | 7.3 | 6.7 | 5.3 | 6.0 | 7.7 | 7.7 | 6.0 | 6.0 | 6.0 | 6.3 | 8.7 | 6.7 | 6.0 | 6.9 | 6.9 | |
| J-2885 | 6.7 | 8.0 | 7.7 | 5.7 | 6.3 | 8.7 | 6.7 | 7.0 | 7.3 | 6.7 | 6.0 | 7.7 | 8.0 | 7.0 | 5.3 | 5.7 | 8.3 | 8.0 | 7.0 | 7.3 | 6.0 | 6.0 | 7.7 | 6.3 | 7.0 | 6.9 | 6.9 | |
| NA-K992 | 6.7 | 8.0 | 7.3 | 6.3 | 6.7 | 9.0 | 6.3 | 7.3 | 8.3 | 7.0 | 6.0 | 5.0 | 7.3 | 7.3 | 5.7 | 7.0 | 6.0 | 8.0 | 7.0 | 6.3 | 8.3 | 6.0 | 6.0 | 8.7 | 5.3 | 6.0 | 6.9 | |
| SRX 2394 | 6.3 | 8.0 | 5.3 | 6.7 | 6.0 | 8.0 | 6.3 | 7.0 | 8.7 | 7.0 | 6.3 | 7.7 | 7.0 | 7.3 | 6.3 | 6.0 | 8.3 | 8.0 | 6.7 | 7.0 | 6.0 | 6.0 | 6.3 | 7.0 | 6.3 | 7.0 | 6.9 | |
| BLACKSBURG III (PST-18NY) | 7.7 | 8.0 | 6.7 | 4.7 | 7.0 | 9.0 | 6.3 | 8.0 | 7.3 | 6.7 | 7.0 | 7.0 | 7.7 | 6.0 | 7.0 | 5.7 | 7.3 | 7.3 | 6.0 | 7.0 | 6.0 | 6.3 | 8.3 | 7.0 | 6.0 | 6.0 | 6.9 | |
| NUGLADE | 8.0 | 8.0 | 6.0 | 4.3 | 6.3 | 8.7 | 6.0 | 7.3 | 8.3 | 8.0 | 7.7 | 6.3 | 7.3 | 6.7 | 6.3 | 5.0 | 5.7 | 8.0 | 8.0 | 6.0 | 7.0 | 6.0 | 6.3 | 7.7 | 6.3 | 6.0 | 6.9 | |
| PICK-232 | 6.3 | 8.0 | 6.0 | 8.3 | 6.3 | 9.0 | 6.3 | 7.3 | 8.3 | 7.0 | 6.7 | 7.3 | 7.7 | 7.3 | 5.0 | 6.0 | 7.0 | 8.0 | 6.3 | 5.7 | 6.7 | 6.3 | 8.7 | 6.7 | 6.7 | 6.9 | 6.9 | |
| MOON SHADOW (PICK 113-3) | 7.7 | 8.7 | 7.3 | 8.0 | 6.7 | 9.0 | 4.7 | 7.3 | 9.0 | 6.3 | 5.7 | 6.3 | 6.3 | 7.0 | 5.3 | 6.0 | 6.0 | 7.7 | 7.7 | 6.3 | 7.0 | 6.3 | 5.0 | 8.0 | 6.0 | 6.0 | 6.9 | |
| A96-451 | 5.7 | 8.0 | 6.0 | 5.7 | 6.0 | 8.3 | 6.7 | 8.0 | 8.7 | 7.3 | 6.7 | 7.3 | 7.0 | 7.0 | 6.7 | 7.3 | 6.0 | 8.0 | 7.7 | 7.0 | 6.3 | 5.3 | 6.3 | 4.7 | 8.3 | 6.3 | 6.0 | 6.8 |
| A98-183 | 5.0 | 8.0 | 7.7 | 5.0 | 7.0 | 9.0 | 4.3 | 7.0 | 9.0 | 6.7 | 6.0 | 7.0 | 7.7 | 7.0 | 6.0 | 5.3 | 7.3 | 7.7 | 8.0 | 7.3 | 6.3 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 | 6.8 |
| ODYSSEY | 7.7 | 8.3 | 7.3 | 4.0 | 6.3 | 8.3 | 6.0 | 7.0 | 8.7 | 7.0 | 6.7 | 6.3 | 7.3 | 7.0 | 6.3 | 5.0 | 6.0 | 8.0 | 8.0 | 7.0 | 5.0 | 5.3 | 6.7 | 6.3 | 8.7 | 6.7 | 6.9 | |
| A96-739 | 6.0 | 8.0 | 5.7 | 7.0 | 7.0 | 8.7 | 6.0 | 6.3 | 8.7 | 7.0 | 6.0 | 6.3 | 7.3 | 7.0 | 6.3 | 6.0 | 5.3 | 7.7 | 8.3 | 6.7 | 7.0 | 6.0 | 6.3 | 5.0 | 8.0 | 6.0 | 6.0 | 6.9 |
| MONTE CARLO (A96-402) | 6.3 | 8.0 | 6.0 | 6.0 | 7.0 | 7.3 | 6.7 | 7.3 | 8.7 | 7.0 | 6.3 | 6.7 | 7.3 | 7.7 | 6.3 | 6.3 | 7.3 | 7.7 | 7.7 | 6.7 | 7.0 | 6.3 | 5.7 | 8.3 | 7.0 | 6.0 | 6.8 | |
| BA 83-113 | 7.7 | 8.0 | 6.0 | 5.3 | 6.7 | 8.7 | 5.3 | 7.7 | 8.3 | 7.0 | 6.3 | 6.7 | 7.0 | 7.0 | 6.3 | 6.7 | 6.0 | 7.7 | 7.7 | 6.3 | 7.3 | 5.3 | 6.3 | 5.7 | 8.0 | 6.0 | 6.0 | 6.8 |
| LIBERATOR | 8.0 | 8.0 | 5.0 | 4.3 | 6.0 | 8.7 | 5.3 | 7.0 | 8.0 | 6.7 | 7.3 | 7.0 | 7.0 | 7.0 | 6.0 | 5.3 | 5.7 | 8.0 | 8.0 | 6.7 | 8.0 | 5.7 | 6.7 | 6.3 | 8.3 | 6.7 | 6.3 | 6.8 |
| BA 00-6001 | 7.0 | 8.0 | 4.7 | 6.7 | 6.3 | 9.0 | 6.0 | 7.0 | 8.3 | 6.7 | 6.3 | 6.7 | 7.0 | 7.0 | 6.7 | 6.7 | 7.7 | 7.7 | 8.0 | 7.3 | 7.0 | 6.0 | 6.3 | 5.7 | 8.3 | 6.0 | 6.0 | 6.8 |
| BODACIOUS | 7.0 | 8.0 | 6.0 | 5.7 | 6.0 | 7.3 | 6.3 | 7.7 | 8.0 | 6.7 | 5.7 | 5.3 | 7.7 | 8.3 | 6.7 | 6.3 | 6.3 | 8.3 | 7.7 | 6.7 | 7.0 | 6.0 | 6.3 | 5.0 | 8.3 | 6.0 | 5.3 | 6.8 |
| BAR PP 0573 | 6.7 | 8.0 | 5.0 | 6.3 | 6.3 | 8.3 | 4.3 | 7.7 | 8.3 | 6.7 | 7.3 | 6.3 | 7.0 | 7.7 | 5.3 | 5.3 | 6.3 | 8.0 | 7.7 | 6.7 | 7.3 | 7.0 | 6.3 | 5.7 | 8.0 | 6.3 | 6.0 | 6.7 |
| A97-1715 | 5.7 | 8.0 | 8.0 | 5.7 | 6.0 | 9.0 | 5.3 | 7.3 | 8.0 | 7.0 | 6.7 | 8.0 | 7.3 | 7.0 | 5.7 | 5.3 | 6.3 | 7.7 | 7.7 | 7.0 | 5.0 | 6.0 | 5.7 | 8.0 | 7.0 | 6.0 | 6.7 | 6.7 |
| PICK 453 | 6.7 | 8.0 | 6.3 | 5.7 | 6.3 | 8.0 | 5.7 | 7.3 | 8.0 | 7.0 | 6.3 | 6.3 | 7.3 | 7.3 | 7.0 | 7.0 | 6.0 | 7.3 | 7.3 | 5.7 | 6.3 | 6.0 | 5.3 | 8.0 | 6.0 | 6.3 | 6.7 | |
| PICK 417 | 6.3 | 8.0 | 6.0 | 4.7 | 6.0 | 7.7 | 5.3 | 7.0 | 8.0 | 7.0 | 6.7 | 7.0 | 7.7 | 7.3 | 7.0 | 7.3 | 5.7 | 7.3 | 7.7 | 5.7 | 6.3 | 6.0 | 6.0 | 6.0 | 6.0 | 6.3 | 6.7 | |
| H92-558 | 6.0 | 8.3 | 6.3 | 4.0 | 7.0 | 8.0 | 5.7 | 7.7 | 8.0 | 6.7 | 7.0 | 7.3 | 7.7 | 7.3 | 6.7 | 6.3 | 6.3 | 7.7 | 8.0 | 6.7 | 7.0 | 6.0 | 6.3 | 5.7 | 8.3 | 6.0 | 6.0 | 6.8 |
| PP H 7907 | 6.7 | 8.0 | 5.3 | 5.7 | 6.3 | 7.3 | 6.3 | 7.0 | 8.0 | 7.0 | 6.7 | 7.0 | 7.3 | 7.3 | 6.0 | 5.7 | 5.7 | 8.3 | 7.3 | 6.3 | 7.3 | 6.3 | 5.7 | 8.0 | 6.0 | 5.7 | 6.7 | |
| SR 2284 (SRX 2284) | 6.7 | 8.0 | 4.7 | 7.7 | 6.3 | 8.3 | 5.3 | 6.3 | 8.0 | 7.3 | 6.3 | 8.0 | 7.0 | 7.0 | 6.0 | 6.7 | 5.7 | 8.0 | 7.7 | 5.7 | 6.0 | 5.7 | 6.3 | 7.0 | 6.0 | 6.7 | 6.7 | |
| BA 82-288 | 7.7 | 8.0 | 5.3 | 5.3 | 6.3 | 8.0 | 5.3 | 8.0 | 8.0 | 7.3 | 6.3 | 7.7 | 7.3 | 7.3 | 6.7 | 6.7 | 6.0 | 6.7 | 8.0 | 5.0 | 6.7 | 6.0 | 6.3 | 7.0 | 6.0 | 6.0 | 6.7 | |
| PST-B5-125 | 7.3 | 8.0 | 5.0 | 5.7 | 6.0 | 8.3 | 4.3 | 7.0 | 8.7 | 7.3 | 6.3 | 6.7 | 7.7 | 7.3 | 5.7 | 6.3 | 6.0 | 6.7 | 8.0 | 5.0 | 6.7 | 6.0 | 6.3 | 7.0 | 6.0 | 6.0 | 6.6 | |
| SONDRA | 6.3 | 8.0 | 5.7 | 5.3 | 6.3 | 8.7 | 5.0 | 7.3 | 8.7 | 6.7 | 6.3 | 6.0 | 7.0 | 7.3 | 6.0 | 5.3 | 6.0 | 7.8 | 8.0 | 6.7 | 7.0 | 6.0 | 6.3 | 8.0 | 6.0 | 6.0 | 6.6 | |
| GOLDSTAR (A98-296) | 7.0 | 8.0 | 5.3 | 5.0 | 6.7 | 8.3 | 5.7 | 7.7 | 8.3 | 7.0 | 5.3 | 6.0 | 7.0 | 7.0 | 6.0 | 6.0 | 5.3 | 7.3 | 7.3 | 5.7 | 6.3 | 6.0 | 5.7 | 7.3 | 6.3 | 6.7 | 6.6 | |
| PST-161 | 6.7 | 8.0 | 5.7 | 8.0 | 6.0 | 8.7 | 4.0 | 7.3 | 7.3 | 7.3 | 6.0 | 7.7 | 7.0 | 7.0 | 6.0 | 5.7 | 6.3 | 8.0 | 7.3 | 4.7 | 7.3 | 5.0 | 6.3 | 8.0 | 5.3 | 6.3 | 6.6 | |
| RITA | 6.3 | 8.3 | 6.0 | 5.0 | 6.7 | 9.0 | 6.0 | 7.7 | 8.3 | 7.0 | 5.3 | 6.0 | 7.3 | 6.7 | 5.3 | 6.0 | 6.0 | 7.7 | 7.7 | 4.7 | 6.7 | 5.7 | 6.0 | 7.7 | 6.0 | 6.7 | 6.7 | |
| ARRON (A97-1563) | 6.0 | 8.0 | 4.7 | 5.0 | 6.3 | 9.0 | 4.3 | 7.3 | 8.3 | 7.0 | 6.7 | 7.0 | 7.7 | 7.0 | 6.0 | 5.7 | 6.0 | 8.0 | 7.7 | 6.7 | 6.7 | 6.0 | 6.3 | 5.7 | 8.3 | 6.0 | 6.0 | 6.6 |
| BARONETTE (BA 81-058) | 7.0 | 8.0 | 5.0 | 5.7 | 6.3 | 7.7 | 4.0 | 7.3 | 8.0 | 6.7 | 6.0 | 7.0 | 7.0 | 7.0 | 5.3 | 7.3 | 7.3 | 7.3 | 4.7 | 5.7 | 6.0 | 6.3 | 5.7 | 7.0 | 5.7 | 6.0 | 6.6 | |
| BEDAZZLED | 7.0 | 8.0 | 4.7 | 4.3 | 6.3 | 6.7 | 5.7 | 7.0 | 8.7 | 7.0 | 7.3 | 6.3 | 6.7 | 6.7 | 5.3 | 6.7 | 6.7 | 6.7 | 8.0 | 6.0 | 6.0 | 6.7 | 5.7 | 6.3 | 6.0 | 6.7 | 6.6 | |
| PST-YORK HARBOR 4 | 7.3 | 8.3 | 4.0 | 6.0 | 6.3 | 8.7 | 4.7 | 7.7 | 8.3 | 7.0 | 6.0 | 6.0 | 7.0 | 6.7 | 6.0 | 6.7 | 6.0 | 7.0 | 7.0 | 6.0 | 6.7 | 5.0 | 6.7 | 5.7 | 6.3 | 6.0 | 6.7 | |
| PST-B3-170 | 7.3 | 8.0 | 4.3 | 7.0 | 8.0 | 4.3 | 7.3 | 8.3 | 7.0 | 6.3 | 7.0 | 7.3 | 7.0 | 7.0 | 5.0 | 6.0 | 5.7 | 7.7 | 7.7 | 6.7 | 6.3 | 6.0 | 6.0 | 5.7 | 7.7 | 6.0 | 6.3 | 6.5 |
| ROYALE (A97-1336) | 6.3 | 7.7 | 5.7 | 5.3 | 6.0 | 8.3 | 5.3 | 6.7 | 9.0 | 7.0 | 6.0 | 6.7 | 7.0 | 7.3 | 5.7 | 4.0 | 6.3 | 7.0 | 7.3 | 6.3 | 6.7 | 5.3 | 6.3 | 5.7 | 8.0 | 6.0 | 6.7 | 6.5 |
| ASCOT | 7.0 | 8.0 | 5.0 | 5.7 | 6.3 | 7.7 | 4.0 | 7.3 | 8.0 | 6.7 | 6.0 | 5.3 | 7.3 | 7.3 | 7.3 | 4.7 | 5.7 | 6.7 | 7.7 | 7.7 | 6.7 | 6.3 | 6.0 | 5.7 | 7.7 | 6.0 | 6.5 | |
| PST-H5-35 | 7.0 | 8.0 | 4.7 | 4.3 | 6.3 | 6.7 | 6.0 | 7.0 | 8.0 | 7.0 | 6.7 | 5.3 | 7.0 | 7.3 | 7.0 | 5.0 | 6.0 | 7.0 | 8.0 | 6.0 | 6.7 | 5.7 | 6.3 | 5.3 | 8.0 | 6.0 | 6.7 | 6.5 |
| SRX 2114 | 6.7 | 8.0 | 3.3 | 6.3 | 6.3 | 8.0 | 4.3 | 8.0 | 8.0 | 7.0 | 6.7 | 6.0 | 7.0 | 7.0 | 7.0 | 5.7 | 5.7 | 5.7 | 8.0 | 7.3 | 6.0 | 6.0 | 5.7 | 7.7 | 6.0 | 6.3 | 6.5 | |
| PRINCETON 105 | . | 8.0 | 5.3 | 4.7 | 6.0 | 8.3 | 5.7 | 7.0 | 8.0 | 7.0 | 5.7 | 6.0 | 7.0 | 7.0 | 5.0 | 6.0 | 5.7 | 7.0 | 7.3 | 6.3 | 6.7 | 6.0 | 5.7 | 8.3 | 6.0 | 6.0 | 6.5 | |
| H94-293 | 6.0 | 8.0 | 3.7 | 6.7 | 6.7 | 7.3 | 5.7 | 7.0 | 8.7 | 7.3 | 6.3 | 7.0 | 7.3 | 7.3 | 5.7 | 3.5 | 5.7 | 7.3 | 8.3 | 6.7 | 6.0 | 5.7 | 6.0 | 6.3 | 7.7 | 6.0 | 6.0 | 6.4 |
| CHAMPLAIN (A98-1275) | 7.0 | 8.0 | 5.3 | 5.0 | 6.0 | 8.7 | 5.3 | 7.3 | 7.7 | 6.7 | 5.7 | 6.7 | 7.0 | 7.3 | 6.7 | 6.7 | 5.7 | 5.7 | 7.0 | 7.0 | 6.3 | 5.0 | 6.0 | 6.3 | 7.7 | 6.0 | 6.0 | 6.4 |
| PP H 7929 | 7.0 | 8.0 | 5.7 | 4.3 | 6.0 | 7.0 | 5.3 | 7.0 | 8.0 | 7.0 | 6.3 | 7.0 | 7.0 | 7.7 | 5.0 | 6.0 | 5.7 | 7.7 | 7.7 | 6.0 | 7.0 | 5.7 | 6.0 | 5.7 | 8.7 | 6.0 | 6.0 | 6.4 |

TABLE 12. (CONT'D)

GENETIC COLOR RATINGS OF KENTUCKY BLUEGRASS CULTIVARS 1/
2001 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

| NAME | C01 | I A1 | I L2 | I L3 | I N1 | K Y1 | M A1 | M D1 | M E1 | M I1 | M O1 | N C1 | N E1 | N E2 | N J1 | N J2 | N Y1 | O K1 | P A1 | R I1 | S D1 | U T1 | V A1 | W A1 | W A3 | W I1 | MEAN | | |
|-----------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| PRO SEEDS - 453 | .8 | 8.0 | 4.7 | 6.0 | 6.0 | 9.0 | 4.7 | 6.3 | 8.3 | 6.3 | 5.7 | 5.7 | 6.7 | 7.0 | 6.0 | 4.3 | 6.0 | 7.0 | 7.7 | 6.3 | 7.0 | 5.3 | 6.3 | 6.8 | 0 | 6.0 | 6.3 | 6.4 | |
| NORTH STAR | 7.0 | 7.7 | 5.3 | 5.3 | 5.7 | 8.3 | 4.7 | 6.3 | 8.0 | 7.3 | 6.3 | 5.7 | 7.3 | 7.0 | 4.7 | 4.3 | 6.0 | 7.3 | 7.7 | 6.7 | 7.0 | 5.7 | 6.0 | 5.7 | 8.3 | 6.0 | 5.7 | 6.4 | |
| WILDWOOD | 6.7 | 8.0 | 4.7 | 5.7 | 6.3 | 8.0 | 4.3 | 7.7 | 8.0 | 7.0 | 5.7 | 6.7 | 6.7 | 7.3 | 5.0 | 6.0 | 5.7 | 5.3 | 7.3 | 5.3 | 6.0 | 6.0 | 7.3 | 6.3 | 6.3 | 6.4 | | | |
| PST-B4-246 | 7.7 | 8.0 | 3.3 | 4.3 | 6.3 | 8.0 | 3.3 | 7.3 | 7.7 | 7.0 | 6.0 | 6.0 | 6.7 | 7.7 | 5.7 | 4.7 | 5.3 | 7.7 | 8.0 | 5.7 | 7.0 | 6.3 | 6.3 | 6.0 | 6.0 | 6.0 | 6.4 | | |
| A98-139 | 5.3 | 8.0 | 4.7 | 5.0 | 6.0 | 8.0 | 4.3 | 6.7 | 8.3 | 6.7 | 6.0 | 6.7 | 6.7 | 7.0 | 6.3 | 6.0 | 6.0 | 7.0 | 7.7 | 5.3 | 6.0 | 6.3 | 6.0 | 8.3 | 6.0 | 6.0 | 6.4 | | |
| SI A96-386 | 6.7 | 8.0 | 4.7 | 5.3 | 6.0 | 8.0 | 4.7 | 7.0 | 8.3 | 7.3 | 5.3 | 6.7 | 6.7 | 7.0 | 5.7 | 4.7 | 5.7 | 8.0 | 7.3 | 6.7 | 6.7 | 6.0 | 4.3 | 8.3 | 5.7 | 6.0 | 6.4 | | |
| SRX QG245 | 6.7 | 7.7 | 6.0 | 5.0 | 6.3 | 7.7 | 5.0 | 7.0 | 8.0 | 7.3 | 6.3 | 5.3 | 6.7 | 6.7 | 4.7 | 6.0 | 5.7 | 7.7 | 7.3 | 6.0 | 6.3 | 7.7 | 6.0 | 6.0 | 6.0 | 6.4 | | | |
| HALLMARK | 6.0 | 8.0 | 4.3 | 5.3 | 6.0 | 7.7 | 3.7 | 8.0 | 7.0 | 7.3 | 5.7 | 6.7 | 7.0 | 7.3 | 6.0 | 5.0 | 6.0 | 8.0 | 7.7 | 5.7 | 6.7 | 5.3 | 7.7 | 6.3 | 6.0 | 6.4 | | | |
| A96-427 | 5.7 | 7.7 | 6.0 | 5.3 | 6.7 | 8.0 | 5.3 | 7.7 | 8.3 | 6.3 | 6.7 | 6.7 | 6.7 | 7.0 | 5.0 | 5.3 | 5.7 | 7.3 | 7.3 | 5.3 | 6.3 | 5.0 | 5.7 | 5.0 | 7.7 | 6.0 | 6.4 | | |
| PP H 7832 | 6.0 | 8.3 | 3.7 | 6.0 | 6.0 | 7.3 | 4.0 | 7.0 | 7.3 | 8.0 | 6.3 | 6.7 | 7.0 | 7.7 | 5.0 | 4.3 | 5.7 | 7.0 | 7.7 | 5.3 | 7.0 | 5.7 | 6.3 | 5.7 | 8.7 | 5.0 | 6.3 | 6.4 | |
| LANGARA | 6.7 | 8.0 | 3.0 | 7.5 | 5.3 | 8.7 | 5.0 | 6.7 | 7.7 | 7.3 | 5.7 | 5.7 | 6.7 | 6.3 | 6.0 | 4.7 | 6.3 | 7.3 | 8.0 | 5.0 | 6.7 | 5.3 | 6.0 | 5.7 | 8.0 | 6.0 | 6.3 | 6.3 | |
| RAMBO | 6.7 | 7.3 | 4.7 | 3.0 | 5.7 | 8.7 | 6.0 | 7.7 | 7.8 | 7.0 | 5.7 | 6.0 | 7.0 | 7.0 | 4.7 | 4.3 | 6.0 | 7.3 | 7.7 | 5.0 | 7.0 | 5.0 | 6.0 | 6.0 | 7.0 | 6.0 | 6.0 | 6.4 | |
| 99AN-53 | 6.0 | 8.0 | 3.7 | 7.3 | 6.3 | 8.3 | 5.7 | 7.0 | 7.7 | 6.7 | 6.3 | 6.0 | 6.7 | 6.7 | 4.7 | 5.7 | 6.3 | 7.3 | 7.3 | 5.0 | 5.7 | 6.3 | 7.7 | 6.3 | 7.0 | 6.0 | 6.0 | 6.4 | |
| SRX 26351 | 6.0 | 8.0 | 5.3 | 5.0 | 6.0 | 7.3 | 5.3 | 6.3 | 8.3 | 6.7 | 5.0 | 6.0 | 7.0 | 7.7 | 4.7 | 5.0 | 5.7 | 8.0 | 8.0 | 5.7 | 6.3 | 5.0 | 6.3 | 6.3 | 8.3 | 4.7 | 6.0 | 6.3 | |
| SHOWCASE | 7.3 | 8.0 | 4.0 | 8.0 | 5.7 | 7.3 | 5.0 | 6.7 | 8.3 | 7.0 | 5.7 | 6.0 | 7.7 | 6.0 | 5.0 | 4.0 | 6.0 | 8.0 | 7.7 | 5.7 | 6.0 | 5.3 | 6.0 | 3.7 | 7.7 | 6.0 | 6.3 | 6.3 | |
| PST-IQG-27 | 7.3 | 8.0 | 3.0 | 7.3 | 6.0 | 8.0 | 4.7 | 6.7 | 8.0 | 7.0 | 6.3 | 5.3 | 6.3 | 6.7 | 5.7 | 3.7 | 5.7 | 7.7 | 8.0 | 6.3 | 6.0 | 5.0 | 5.3 | 4.3 | 8.3 | 6.7 | 6.3 | 6.3 | |
| UNIQUE | 7.0 | 7.3 | 2.3 | 8.3 | 6.3 | 7.7 | 5.0 | 6.3 | 8.0 | 7.0 | 6.3 | 6.3 | 6.3 | 6.0 | 4.7 | 3.3 | 5.7 | 8.3 | 8.0 | 6.3 | 6.0 | 6.0 | 6.3 | 5.0 | 7.3 | 5.7 | 6.3 | 6.3 | |
| B3-171 | 7.0 | 8.0 | 2.0 | 8.0 | 5.0 | 7.7 | 4.7 | 6.7 | 8.0 | 7.0 | 6.3 | 6.0 | 6.3 | 7.0 | 5.3 | 4.7 | 5.3 | 7.3 | 8.0 | 6.0 | 5.7 | 6.0 | 6.3 | 4.0 | 7.3 | 6.7 | 6.3 | 6.3 | |
| A98-881 | 5.7 | 7.3 | 6.0 | 4.7 | 6.3 | 8.3 | 5.3 | 7.0 | 7.0 | 7.0 | 6.3 | 6.3 | 6.7 | 6.7 | 4.3 | 5.3 | 7.0 | 7.7 | 8.0 | 6.0 | 3.7 | 6.3 | 5.0 | 6.3 | 8.3 | 4.7 | 6.0 | 6.3 | |
| CABERNET | 6.7 | 8.0 | 5.3 | 4.7 | 5.3 | 9.0 | 3.7 | 6.3 | 8.0 | 6.3 | 5.7 | 7.3 | 6.7 | 7.0 | 5.7 | 4.3 | 5.7 | 7.3 | 7.7 | 5.0 | 6.0 | 5.7 | 6.0 | 5.7 | 7.0 | 6.7 | 6.3 | 6.2 | |
| PST-H6-150 | 7.7 | 7.7 | 2.7 | 7.0 | 6.0 | 7.3 | 5.7 | 7.7 | 8.0 | 6.7 | 5.0 | 7.3 | 6.3 | 6.3 | 5.7 | 3.7 | 5.3 | 7.3 | 7.7 | 6.0 | 5.3 | 6.0 | 6.0 | 4.7 | 8.3 | 5.0 | 6.3 | 6.3 | |
| HV 140 | 6.0 | 8.0 | 3.0 | 5.0 | 5.3 | 7.3 | 4.7 | 7.0 | 7.0 | 7.0 | 6.3 | 5.0 | 7.3 | 7.0 | 5.3 | 4.0 | 6.3 | 7.7 | 8.3 | 6.0 | 6.3 | 5.7 | 6.0 | 6.3 | 8.0 | 6.3 | 6.0 | 6.2 | |
| BAR PP 0471 | 6.7 | 8.0 | 3.7 | 6.7 | 5.7 | 7.3 | 4.3 | 6.7 | 7.7 | 6.7 | 5.3 | 6.3 | 6.3 | 6.3 | 5.3 | 3.7 | 6.3 | 8.0 | 7.7 | 6.0 | 6.3 | 5.7 | 6.0 | 6.3 | 7.7 | 6.0 | 6.3 | 6.2 | |
| DLF 76-9037 | 6.3 | 7.7 | 2.0 | 7.3 | 5.7 | 8.0 | 4.7 | 7.0 | 8.0 | 6.7 | 6.0 | 6.3 | 7.0 | 6.7 | 6.0 | 4.0 | 6.0 | 7.3 | 8.0 | 5.7 | 5.7 | 5.0 | 6.3 | 3.7 | 8.0 | 6.7 | 6.3 | 6.2 | |
| HV 238 | 6.7 | 8.0 | 4.0 | 4.7 | 6.0 | 8.0 | 5.0 | 7.0 | 7.7 | 7.0 | 7.0 | 6.7 | 7.0 | 7.0 | 4.7 | 5.7 | 6.0 | 5.7 | 7.0 | 5.0 | 6.0 | 5.0 | 5.7 | 7.0 | 6.7 | 5.3 | 6.0 | 6.2 | |
| JULIA | 6.3 | 8.0 | 4.3 | 4.3 | 6.0 | 7.0 | 4.7 | 7.0 | 8.0 | 7.3 | 6.7 | 4.3 | 7.7 | 7.0 | 5.3 | 5.0 | 6.0 | 7.0 | 7.0 | 5.3 | 7.0 | 5.3 | 5.7 | 6.0 | 4.7 | 6.0 | 6.2 | | |
| SHAMROCK | 6.3 | 7.0 | 5.3 | 5.0 | 6.0 | 8.0 | 6.3 | 7.0 | 7.7 | 6.7 | 6.0 | 6.6 | 6.3 | 6.3 | 5.3 | 5.0 | 6.0 | 7.3 | 7.0 | 4.3 | 7.0 | 4.7 | 6.0 | 7.3 | 5.0 | 6.0 | 6.2 | | |
| PP H 6370 | 6.7 | 8.0 | 1.7 | 5.0 | 5.7 | 8.7 | 6.0 | 6.3 | 7.0 | 7.0 | 6.3 | 7.3 | 7.7 | 7.0 | 4.7 | 5.7 | 7.0 | 7.7 | 8.0 | 6.0 | 3.7 | 6.3 | 5.0 | 6.3 | 7.7 | 5.0 | 6.0 | 6.2 | |
| A97-1330 | 6.0 | 8.0 | 2.7 | 7.7 | 5.7 | 8.0 | 4.3 | 6.7 | 7.7 | 6.7 | 6.3 | 6.3 | 6.3 | 7.0 | 5.3 | 3.7 | 6.0 | 7.3 | 7.7 | 6.3 | 6.0 | 5.0 | 5.7 | 6.0 | 4.7 | 7.7 | 6.0 | 6.1 | |
| H92-203 | 6.7 | 7.7 | 2.7 | 6.3 | 5.7 | 7.7 | 4.7 | 6.7 | 8.0 | 7.0 | 5.7 | 6.0 | 7.0 | 6.0 | 5.3 | 3.7 | 6.0 | 7.7 | 8.0 | 5.3 | 5.7 | 6.0 | 6.7 | 3.7 | 7.7 | 5.7 | 6.3 | 6.1 | |
| APOLLO | 7.7 | 7.3 | 2.3 | 7.3 | 6.3 | 7.3 | 5.0 | 6.3 | 7.7 | 7.3 | 5.7 | 5.7 | 6.0 | 6.0 | 5.0 | 4.0 | 5.3 | 7.7 | 8.0 | 5.3 | 6.3 | 5.0 | 6.0 | 5.0 | 8.3 | 6.0 | 6.0 | 6.1 | |
| B3-185 | 6.7 | 8.0 | 2.0 | 6.3 | 5.7 | 7.7 | 4.0 | 7.0 | 7.7 | 6.7 | 5.7 | 6.0 | 6.3 | 6.3 | 5.3 | 3.7 | 6.0 | 7.7 | 8.0 | 6.3 | 6.0 | 5.3 | 6.0 | 4.3 | 7.7 | 6.3 | 6.0 | 6.1 | |
| CVB-20631 | 6.0 | 8.0 | 4.0 | 4.7 | 5.7 | 6.7 | 4.7 | 6.7 | 7.0 | 7.3 | 6.7 | 6.3 | 5.0 | 7.7 | 7.7 | 5.7 | 4.7 | 5.7 | 7.7 | 7.3 | 5.7 | 5.7 | 5.0 | 7.7 | 4.7 | 5.7 | 6.1 | | |
| BRILLIANT | 7.0 | 7.7 | 1.7 | 7.7 | 5.3 | 7.0 | 4.3 | 6.7 | 8.0 | 6.3 | 6.3 | 5.7 | 6.0 | 6.3 | 5.7 | 4.7 | 6.3 | 7.7 | 8.0 | 6.0 | 6.0 | 5.0 | 6.0 | 5.7 | 7.7 | 6.0 | 6.0 | 6.1 | |
| A97-857 | 5.7 | 8.0 | 3.3 | 4.7 | 5.0 | 8.3 | 3.3 | 5.7 | 7.3 | 6.3 | 5.7 | 7.3 | 6.7 | 7.0 | 5.3 | 4.7 | 6.0 | 7.3 | 8.0 | 4.7 | 6.3 | 6.0 | 6.7 | 5.7 | 7.7 | 6.3 | 6.0 | 6.1 | |
| MARQUIS | 6.3 | 8.0 | 4.3 | 3.3 | 3.6 | 6.0 | 7.7 | 5.7 | 6.0 | 7.7 | 6.7 | 5.0 | 6.3 | 6.3 | 4.7 | 4.3 | 6.3 | 7.3 | 7.0 | 5.3 | 6.3 | 6.0 | 6.0 | 5.3 | 8.0 | 5.0 | 5.7 | 6.0 | |
| ALPINE | 6.0 | 8.0 | 3.0 | 4.3 | 5.7 | 8.0 | 3.0 | 7.3 | 7.7 | 7.0 | 6.0 | 6.0 | 6.7 | 6.7 | 6.3 | 4.0 | 5.3 | 6.7 | 7.3 | 6.0 | 6.7 | 5.0 | 5.3 | 7.0 | 4.0 | 5.3 | 6.0 | 6.0 | |
| CHELSEA | 6.3 | 7.7 | 2.7 | 4.7 | 6.0 | 7.3 | 4.7 | 6.3 | 7.3 | 7.0 | 5.0 | 7.0 | 7.7 | 8.0 | 4.7 | 3.0 | 5.3 | 7.7 | 7.7 | 6.3 | 6.0 | 5.3 | 6.0 | 5.7 | 8.0 | 6.3 | 6.0 | 6.0 | |
| B5-43 | 7.3 | 8.0 | 3.0 | 4.3 | 5.7 | 8.0 | 5.7 | 6.0 | 7.7 | 6.7 | 6.0 | 4.7 | 7.3 | 7.7 | 4.7 | 3.0 | 6.0 | 7.7 | 7.7 | 5.0 | 6.0 | 4.7 | 6.0 | 5.7 | 8.0 | 4.7 | 6.0 | 6.0 | |
| PST-1804 | 7.0 | 7.3 | 2.0 | 5.0 | 4.0 | 5.3 | 8.7 | 5.7 | 6.7 | 6.7 | 6.3 | 5.3 | 6.7 | 6.7 | 4.0 | 4.3 | 6.3 | 6.7 | 7.0 | 5.0 | 6.7 | 4.3 | 5.0 | 6.3 | 7.0 | 5.7 | 6.3 | 6.0 | |
| CHAMPAGNE | 6.7 | 7.0 | 4.7 | 5.3 | 6.0 | 8.3 | 3.7 | 6.0 | 8.7 | 8.0 | 6.7 | 6.3 | 6.3 | 6.3 | 7.0 | 3.7 | 6.0 | 6.3 | 6.3 | 7.7 | 3.7 | 6.0 | 4.0 | 5.0 | 5.3 | 7.0 | 5.7 | 6.3 | 6.0 |
| ROYCE (A98-304) | 6.3 | 8.0 | 1.7 | 6.7 | 5.7 | 7.3 | 4.3 | 6.7 | 8.7 | 7.0 | 5.0 | 5.7 | 6.3 | 6.7 | 5.0 | 3.3 | 5.7 | 7.7 | 8.0 | 6.3 | 5.7 | 5.0 | 5.7 | 3.7 | 8.0 | 6.3 | 6.0 | 6.0 | |
| BARON | 6.0 | 7.7 | 4.0 | 4.0 | 5.3 | 7.3 | 4.7 | 6.7 | 7.0 | 7.0 | 6.0 | 5.7 | 6.3 | 6.7 | 4.7 | 4.7 | 6.3 | 7.3 | 7.3 | 5.3 | 6.0 | 5.0 | 6.0 | 6.7 | 7.0 | 5.3 | 5.7 | 6.0 | |
| GOLDRUSH | 6.3 | 8.0 | 4.3 | 5.0 | 5.7 | 8.3 | 3.7 | 6.7 | 6.7 | 6.7 | 6.0 | 4.7 | 6.3 | 6.7 | 6.0 | 4.7 | 4.0 | 5.7 | 7.3 | 7.0 | 5.3 | 6.3 | 6.0 | 6.0 | 6.7 | 7.3 | 6.0 | 6.0 | 6.0 |
| BAR PP 0468 | 6.7 | 7.7 | 1.7 | 5.3 | 5.3 | 7.7 | 4.3 | 6.7 | 8.0 | 6.7 | 5.3 | 6.7 | 6.7 | 6.7 | 6.0 | 4.0 | 5.3 | 6.7 | 7.3 | 6.0 | 3.3 | 5.3 | 7.3 | 6.0 | 4.3 | 5.7 | 6.0 | | |

TABLE 12. (CONT'D)

GENETIC COLOR RATINGS OF KENTUCKY BLUEGRASS CULTIVARS
2001 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

| NAME | C01 | I A1 | I L2 | I L3 | I N1 | K Y1 | M A1 | M D1 | M E1 | M I1 | M O1 | N C1 | N E1 | N E2 | N J1 | N J2 | N Y1 | O H1 | O K1 | P A1 | R I1 | S D1 | U T1 | V A1 | W A1 | W A3 | W I1 | MEAN | |
|----------------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| JEWEL | 6.0 | 6.7 | 3.0 | 5.7 | 6.0 | 9.0 | 4.3 | 7.0 | 6.7 | 6.0 | 5.3 | 4.7 | 6.0 | 6.3 | 5.0 | 4.3 | 6.0 | 7.0 | 7.0 | 6.3 | 6.7 | 5.0 | 6.3 | 5.7 | 6.0 | 6.3 | 5.7 | 6.0 | |
| BARITONE | 6.3 | 8.0 | 4.3 | 4.3 | 5.7 | 7.3 | 3.3 | 6.7 | 7.3 | 7.0 | 6.3 | 5.7 | 7.3 | 7.0 | 4.3 | 5.3 | 5.7 | 7.0 | 7.3 | 4.3 | 7.0 | 5.3 | 5.0 | 6.0 | 3.3 | 6.0 | 6.0 | 6.0 | |
| DLF 76-9032 | 6.7 | 8.0 | 3.0 | 5.0 | 6.0 | 7.0 | 3.3 | 6.3 | 8.0 | 6.7 | 5.0 | 4.7 | 5.7 | 6.7 | 6.0 | 3.7 | 6.3 | 7.7 | 7.3 | 5.7 | 6.3 | 6.0 | 5.3 | 5.7 | 5.7 | 6.3 | 6.0 | 6.0 | |
| ABBEY | 6.0 | 7.7 | 4.0 | 4.0 | 5.7 | 8.0 | 5.3 | 6.3 | 6.3 | 7.0 | 5.3 | 5.0 | 6.3 | 6.0 | 3.7 | 4.7 | 6.3 | 7.7 | 7.0 | 5.7 | 5.0 | 6.0 | 6.3 | 6.0 | 6.3 | 6.0 | 6.3 | 6.0 | |
| A98-1028 | 6.0 | 7.3 | 5.0 | 4.0 | 5.7 | 8.7 | 4.7 | 6.3 | 7.7 | 6.3 | 6.0 | 5.0 | 6.7 | 7.0 | 4.3 | 5.0 | 6.0 | 7.3 | 7.0 | 4.7 | 6.3 | 5.0 | 6.0 | 6.7 | 6.0 | 6.3 | 6.0 | 6.3 | 6.0 |
| LAKESHORE (A93-2000) | 7.0 | 7.3 | 4.7 | 4.0 | 6.0 | 7.7 | 5.7 | 6.3 | 7.0 | 5.7 | 6.3 | 5.3 | 7.0 | 7.0 | 5.0 | 4.3 | 5.3 | 6.7 | 7.0 | 4.7 | 7.0 | 4.7 | 5.7 | 7.0 | 5.0 | 5.7 | 6.0 | 5.7 | 6.0 |
| B5-144 | 6.7 | 8.0 | 3.0 | 5.0 | 5.3 | 7.7 | 6.0 | 6.0 | 8.0 | 7.0 | 6.3 | 4.7 | 6.7 | 6.7 | 4.7 | 3.3 | 6.0 | 7.3 | 7.3 | 3.7 | 6.0 | 5.3 | 6.0 | 5.3 | 6.0 | 5.3 | 5.7 | 5.9 | 5.9 |
| SERENE | 6.0 | 7.7 | 3.3 | 6.3 | 5.3 | 7.3 | 5.0 | 6.3 | 7.7 | 7.0 | 6.7 | 6.0 | 6.7 | 6.0 | 3.7 | 3.0 | 5.7 | 7.0 | 7.0 | 4.7 | 5.7 | 6.0 | 6.3 | 7.0 | 4.3 | 5.7 | 5.9 | 5.9 | 5.9 |
| MISTY | 6.0 | 7.7 | 2.3 | 4.0 | 5.3 | 7.7 | 4.7 | 6.7 | 8.0 | 6.7 | 6.0 | 6.3 | 6.3 | 4.7 | 4.0 | 5.7 | 7.3 | 7.3 | 4.7 | 6.0 | 5.3 | 6.3 | 6.7 | 5.0 | 6.0 | 5.9 | 6.3 | 5.9 | |
| BARTITIA | 6.0 | 8.0 | 4.0 | 4.3 | 5.3 | 7.0 | 4.0 | 6.7 | 7.3 | 7.0 | 6.3 | 5.0 | 6.7 | 7.0 | 4.0 | 3.7 | 5.7 | 7.0 | 7.0 | 5.7 | 7.3 | 5.0 | 5.3 | 5.3 | 5.7 | 5.7 | 5.9 | 5.9 | 5.9 |
| BARZAN | 6.3 | 8.0 | 2.3 | 4.7 | 5.0 | 6.7 | 5.0 | 6.7 | 7.3 | 6.3 | 5.7 | 7.3 | 7.3 | 3.7 | 3.7 | 5.7 | 7.0 | 7.3 | 5.3 | 6.3 | 5.7 | 6.0 | 6.7 | 7.3 | 5.0 | 6.0 | 5.9 | 6.0 | 5.9 |
| FAIRFAX | 7.0 | 7.7 | 3.7 | 5.0 | 5.3 | 7.3 | 6.0 | 6.7 | 7.3 | 7.0 | 5.7 | 4.7 | 6.3 | 7.3 | 4.0 | 2.7 | 6.0 | 7.3 | 7.0 | 4.7 | 6.3 | 5.0 | 6.0 | 5.3 | 8.0 | 5.0 | 5.3 | 5.9 | 5.9 |
| RAVEN | 6.3 | 7.7 | 3.7 | 4.0 | 5.3 | 6.7 | 4.7 | 6.0 | 6.3 | 7.0 | 6.0 | 4.0 | 6.3 | 6.0 | 3.7 | 4.7 | 6.0 | 7.3 | 7.0 | 6.0 | 7.0 | 6.0 | 6.3 | 8.0 | 6.0 | 6.0 | 5.9 | 5.9 | |
| ALLURE | 6.0 | 8.0 | 4.0 | 4.3 | 5.7 | 8.0 | 5.0 | 6.7 | 7.0 | 6.7 | 5.7 | 3.7 | 6.7 | 7.0 | 4.7 | 3.3 | 6.0 | 8.0 | 7.7 | 5.0 | 7.7 | 6.0 | 5.7 | 8.3 | 6.0 | 6.0 | 5.9 | 5.9 | |
| BROOKLAWN | 6.7 | 7.3 | 4.0 | 3.7 | 5.7 | 8.0 | 4.7 | 7.0 | 7.0 | 6.0 | 6.3 | 6.3 | 6.3 | 7.3 | 5.0 | 4.0 | 6.0 | 6.7 | 7.0 | 4.3 | 6.7 | 4.3 | 5.3 | 6.0 | 6.3 | 5.0 | 5.7 | 5.9 | 5.9 |
| PST-108-79 | 7.0 | 8.0 | 5.0 | 4.3 | 5.3 | 7.3 | 4.0 | 6.7 | 8.3 | 6.7 | 5.7 | 5.0 | 6.0 | 6.7 | 4.7 | 3.7 | 6.0 | 7.0 | 7.3 | 4.3 | 5.0 | 4.7 | 6.0 | 6.0 | 7.3 | 5.0 | 5.7 | 5.9 | 5.9 |
| PST-1701 | 7.3 | 7.3 | 3.0 | 5.0 | 5.7 | 8.3 | 3.7 | 6.7 | 7.7 | 7.0 | 5.7 | 6.0 | 6.7 | 6.0 | 4.0 | 4.7 | 6.0 | 6.0 | 7.0 | 4.7 | 6.7 | 3.3 | 6.0 | 3.7 | 8.0 | 5.7 | 6.0 | 5.9 | 5.9 |
| LIMERICK | 6.7 | 7.7 | 3.3 | 5.0 | 5.3 | 8.3 | 4.0 | 6.3 | 7.7 | 7.3 | 6.0 | 6.0 | 6.3 | 5.7 | 4.0 | 3.7 | 6.7 | 7.0 | 4.3 | 6.0 | 5.0 | 6.0 | 4.3 | 7.3 | 4.3 | 6.3 | 5.8 | 5.8 | |
| BARIRIS | 6.0 | 8.0 | 4.0 | 4.7 | 5.3 | 7.3 | 3.0 | 6.7 | 7.3 | 6.7 | 5.7 | 4.0 | 7.0 | 7.0 | 4.3 | 5.0 | 5.7 | 6.3 | 7.3 | 4.3 | 6.0 | 5.0 | 5.7 | 5.7 | 7.7 | 4.0 | 6.0 | 5.8 | 5.8 |
| CHATEAU | 6.0 | 8.0 | 2.3 | 4.3 | 5.3 | 7.0 | 5.7 | 6.7 | 7.7 | 7.3 | 5.7 | 4.0 | 7.3 | 7.0 | 4.0 | 3.0 | 5.7 | 7.3 | 7.3 | 4.7 | 6.0 | 4.7 | 6.0 | 5.7 | 7.7 | 5.3 | 6.0 | 5.8 | 5.8 |
| DLF 76-9036 | 6.3 | 7.7 | 4.3 | 2.7 | 5.3 | 8.0 | 4.0 | 6.0 | 7.0 | 6.7 | 5.7 | 5.0 | 6.0 | 6.7 | 4.0 | 4.3 | 5.7 | 7.7 | 7.3 | 4.7 | 6.3 | 5.0 | 5.7 | 5.7 | 7.3 | 5.7 | 6.0 | 5.8 | 5.8 |
| ENVICTA | 6.3 | 7.7 | 3.3 | 3.3 | 5.7 | 7.0 | 4.3 | 6.3 | 6.0 | 6.7 | 6.0 | 4.0 | 6.0 | 5.3 | 4.7 | 5.0 | 6.0 | 7.0 | 7.3 | 6.3 | 6.3 | 5.7 | 6.0 | 5.3 | 7.3 | 5.7 | 6.0 | 5.8 | 5.8 |
| LILY | 7.0 | 7.7 | 3.0 | 4.3 | 5.7 | 7.7 | 6.0 | 6.7 | 7.7 | 7.0 | 5.7 | 5.0 | 6.7 | 6.3 | 3.3 | 3.0 | 6.3 | 7.7 | 7.0 | 4.0 | 5.7 | 4.0 | 5.3 | 6.0 | 7.7 | 4.7 | 5.7 | 5.8 | 5.8 |
| B-45 | 7.0 | 7.7 | 2.7 | 4.7 | 6.0 | 7.7 | 5.3 | 6.0 | 7.3 | 6.3 | 5.7 | 4.7 | 6.7 | 7.0 | 4.3 | 3.0 | 5.3 | 7.3 | 7.0 | 4.3 | 6.0 | 4.7 | 6.0 | 5.7 | 7.7 | 4.7 | 5.7 | 5.8 | 5.8 |
| E4-128A | 6.7 | 7.3 | 2.3 | 5.7 | 5.3 | 7.3 | 4.7 | 6.3 | 8.0 | 7.0 | 5.7 | 5.7 | 6.7 | 6.7 | 5.3 | 3.3 | 6.0 | 7.0 | 8.0 | 3.7 | 5.0 | 6.0 | 4.0 | 5.7 | 7.7 | 3.3 | 7.7 | 3.7 | 6.0 |
| COVENTRY | 6.0 | 7.3 | 2.3 | 4.7 | 5.3 | 7.3 | 5.0 | 6.3 | 6.7 | 7.3 | 5.7 | 4.7 | 6.7 | 7.0 | 4.0 | 3.0 | 5.7 | 7.7 | 7.0 | 4.0 | 6.0 | 4.0 | 5.7 | 5.7 | 8.0 | 5.0 | 6.3 | 5.7 | 5.7 |
| JEFFERSON | 6.0 | 7.3 | 2.0 | 3.3 | 5.7 | 8.0 | 4.7 | 7.0 | 8.3 | 6.7 | 5.7 | 5.7 | 6.7 | 6.0 | 3.7 | 4.0 | 6.0 | 5.7 | 7.0 | 3.7 | 6.3 | 4.7 | 5.7 | 5.7 | 7.3 | 5.3 | 6.0 | 5.7 | 5.7 |
| LIMOUSINE | 6.3 | 8.0 | 3.3 | 3.0 | 5.3 | 6.7 | 5.0 | 6.3 | 7.0 | 6.7 | 5.7 | 5.7 | 6.7 | 6.7 | 4.3 | 3.0 | 6.0 | 7.3 | 7.3 | 4.0 | 5.7 | 4.3 | 5.7 | 5.7 | 7.3 | 5.3 | 6.0 | 5.7 | 5.7 |
| JULIUS | 6.3 | 8.0 | 2.0 | 4.3 | 5.3 | 7.0 | 5.7 | 6.7 | 7.7 | 6.7 | 5.7 | 5.3 | 6.7 | 7.0 | 4.3 | 3.0 | 6.3 | 7.0 | 7.0 | 4.7 | 5.3 | 4.0 | 5.7 | 5.7 | 7.0 | 3.7 | 6.0 | 5.6 | 5.6 |
| BARONIE | 5.7 | 7.0 | 1.3 | 4.0 | 6.3 | 8.3 | 4.0 | 7.0 | 8.3 | 7.0 | 6.3 | 5.0 | 6.3 | 6.0 | 4.7 | 4.0 | 5.0 | 5.7 | 7.0 | 3.0 | 5.3 | 4.3 | 5.3 | 5.0 | 7.0 | 4.7 | 6.3 | 5.6 | 5.6 |
| BH 00-6002 | 6.0 | 7.0 | 3.7 | 2.7 | 5.3 | 8.3 | 3.3 | 6.3 | 7.7 | 7.0 | 5.7 | 4.7 | 5.7 | 5.3 | 3.7 | 3.3 | 6.0 | 6.7 | 7.0 | 3.7 | 6.3 | 4.7 | 5.7 | 5.7 | 6.7 | 5.3 | 6.3 | 5.5 | 5.5 |
| PP H 6366 | 6.0 | 8.0 | 1.0 | 5.3 | 5.3 | 6.7 | 5.0 | 6.0 | 6.0 | 6.7 | 5.7 | 5.0 | 6.7 | 6.0 | 4.0 | 2.3 | 6.0 | 7.3 | 7.7 | 3.7 | 6.0 | 3.3 | 6.3 | 4.0 | 8.0 | 4.7 | 6.0 | 5.5 | 5.5 |
| WELLINGTON | 7.0 | 7.3 | 2.7 | 6.3 | 5.0 | 7.7 | 2.3 | 6.0 | 5.7 | 6.0 | 5.0 | 4.7 | 5.7 | 5.3 | 4.0 | 3.0 | 5.7 | 6.3 | 7.0 | 5.3 | 5.7 | 4.0 | 6.0 | 5.7 | 7.0 | 5.0 | 5.7 | 5.4 | 5.4 |
| WASHINGTON | 7.0 | 7.0 | 1.0 | 4.7 | 5.3 | 7.3 | 4.0 | 6.0 | 6.3 | 6.3 | 5.0 | 3.7 | 6.3 | 6.3 | 3.3 | 3.7 | 5.7 | 7.0 | 7.0 | 5.0 | 5.3 | 4.0 | 5.0 | 5.3 | 6.7 | 4.7 | 6.3 | 5.4 | 5.4 |
| A96-742 | 5.7 | 7.0 | 1.7 | 3.7 | 5.3 | 7.0 | 3.0 | 6.0 | 6.3 | 6.7 | 5.0 | 3.7 | 6.0 | 6.0 | 4.0 | 4.3 | 6.0 | 6.3 | 7.0 | 4.7 | 5.3 | 5.0 | 4.7 | 6.7 | 6.3 | 6.0 | 5.4 | 5.4 | 5.4 |
| GO-91LM9 | 6.0 | 6.7 | 3.7 | 5.0 | 5.0 | 6.7 | 4.7 | 5.5 | 6.3 | 6.3 | 5.0 | 5.7 | 5.0 | 5.0 | 2.7 | 3.0 | 5.7 | 5.7 | 6.7 | 5.0 | 5.3 | 3.0 | 5.0 | 5.0 | 6.7 | 6.3 | 6.0 | 5.4 | 5.4 |
| DLF 76-9034 | 6.3 | 7.0 | 1.3 | 3.7 | 5.0 | 7.0 | 4.0 | 6.7 | 6.0 | 6.0 | 5.0 | 5.3 | 5.0 | 6.3 | 4.0 | 4.7 | 6.3 | 5.7 | 7.0 | 3.7 | 5.3 | 3.0 | 4.7 | 5.3 | 5.7 | 5.2 | 6.0 | 5.2 | 5.2 |
| EAGLETON | 6.7 | 7.0 | 1.7 | 3.3 | 5.0 | 7.3 | 3.7 | 6.0 | 7.0 | 6.3 | 5.0 | 5.3 | 6.0 | 5.0 | 4.0 | 2.3 | 5.7 | 5.7 | 7.0 | 3.7 | 5.3 | 3.0 | 5.7 | 5.3 | 6.0 | 5.2 | 6.0 | 5.2 | 5.2 |
| KENBLUE | 4.7 | 7.3 | 1.3 | 4.3 | 5.0 | 6.7 | 3.0 | 5.3 | 6.7 | 7.0 | 5.0 | 3.3 | 5.0 | 6.0 | 3.7 | 2.7 | 5.7 | 5.3 | 6.7 | 5.7 | 5.0 | 4.0 | 4.7 | 4.3 | 6.0 | 5.7 | 6.0 | 5.0 | 5.0 |
| LSD VALUE | 0.7 | 0.6 | 1.6 | 1.9 | 0.8 | 1.0 | 1.3 | 0.8 | 1.1 | 0.9 | 1.3 | 1.3 | 0.8 | 1.0 | 1.3 | 1.4 | 0.9 | 0.9 | 0.7 | 1.1 | 0.8 | 1.0 | 1.2 | 0.9 | 1.0 | 1.1 | 0.8 | 0.2 | |
| C.V. (%) | 6.6 | 4.7 | 20.7 | 21.1 | 8.4 | 7.4 | 15.0 | 7.2 | 8.7 | 8.1 | 13.1 | 12.9 | 7.5 | 8.4 | 13.9 | 16.5 | 9.8 | 7.0 | 6.0 | 11.1 | 10.6 | 9.5 | 10.3 | 13.2 | 7.4 | 11.7 | 8.0 | 10.5 | |

2002 002.11

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.
 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

US DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION-PLANT VARIETY PROTECTION OFFICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S)

Jacklin Seed / Simplot

4. ADDRESS (Street and No., or RFD No., CITY, STATE, and ZIP Code, and Country)

5300 West Riverbend Ave.
Post Falls, Idaho 83854

8. Does the applicant own all rights to the variety? Mark an "X" in appropriate block. If no, please explain.

 YES NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company?

 YES NO

If no, give name of country _____

10. Is the applicant the original breeder? If no, please answer the following:

 YES NO

a. If original rights to variety were owned by individual(s):

Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country _____

 YES NO

b. If original rights to variety were owned by a company:

Is the original breeder(s) U.S. based company? If no, give name of country _____

11. Additional explanation on ownership. (If needed, use reverse for extra space):

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition

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Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER
J-2487, 94-2487

3. VARIETY NAME
Tsunami

5. TELEPHONE (Include area code)
(208) 773-7581

6. FAX (include area code)
(208) 773-4846

7. PVPO NUMBER
200200211